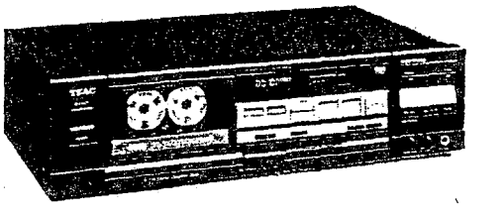
TEAC®



SERVICE MANUAL

V-770

Stereo Cassette Deck

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CAUTION

⚠Parts marked with this sign are safety critical components. They must always be replaced with identical components— refer to the appropriate parts list and ensure exact replacement.

注 意

⚠印は安全重要部品です 交換する時は必ずティアック指定の部品を使用してください.

Effective;September 1986

5704033300

1 SPECIFICATIONS

仕様

Track System 4-Track 2-Channel Stereo
Heads 3: 1 Erase, 1 Record and 1 Playback (Combination)
Type of Tape Cassette tape C-60 and C-90 (Philips type)
Tape Speed 4.76 cm/sec. (1-7/8 ips)
Motors 3: 1 DC Servo capstan motor
1 DC reel motor
1 DC mechanism motor
Wow and Flutter (WRMS) 0.03 %
Frequency Response (Overall, -20 dB)
20 – 21,000 Hz
(25 – 20,000 Hz ±3 dB), Metal
20 – 19,000 Hz
(25 – 19,000 Hz ±3 dB), CrO_2
20 – 18,000 Hz
(25 – 17,000 Hz ±3 dB), Normal
Signal-to-Noise Ratio (Overall)
60 dB (3 % THD Level, Weighted)
70 dB (Dolby B NR in, over 5 kHz)
80 dB (Dolby C NR in, over 1 kHz)
Fast Winding Time Approximately 80 seconds for C-60
Inputs Line: 87 mV, 40 kohms
Outputs Line: 0.43 V for load impedance of 50 kohms or more
Headphones: 8 ohms
Power Requirements 120/220/240 V AC, 50/60 Hz
(General export model)
120 V AC, 60 Hz (USA/Canada)
220 V AC, 50 Hz (Europe)
240 V AC, 50 Hz (U.K./Australia)
Power Consumption 17 W
Dimensions (W x H x D) 435 x 120 x 265 mm (17-1/8" x 4-3/4" x 10-7/16")
Weight 4.9 kg (10-9/10 lbs) net

- Specifications were determined using metal tape except as noted.
- Improvements may result in specification or feature change without notice.

トラック形式	4トラック2チャンネル・ステレオホニック方式
ヘッド構成	消去ヘッド×1，録音×1・再生×1　コンビネーション・ヘッド
使用テープ	C-60，C-90タイプ カセット・テープ
テープ速度	4.8センチ
モーター	キャプスタン：DC サーボモーター×1 リール：DC モーター×1 メカニズム：DC モーター×1
ワウ・フラッター	0.03%(W.RMS)，±0.06%(W.Peak EIAJ)
周波数特性（総合）	20Hz－21,000Hz(25Hz－20,000Hz±3dB，EIAJ)：メタル 20Hz－20,000Hz(25Hz－19,000Hz±3dB，EIAJ)：クローム 20Hz－18,000Hz(25Hz—17,000Hz±3dB，EIAJ)：ノーマル
総合SN比	60dB(NR OUT，3% THDレベル，WTD) 70dB(ドルビーB NR IN 5kHz以上) 80dB(ドルビーC NR IN 1kHz以上)
早巻時間	C-60テープで約80秒
入力	ライン：87mV(入力インピーダンス40kΩ以上)
出力	ライン：0.43V(負荷インピーダンス50kΩ以上) ヘッドホン：2mW／8Ω
電源	100V AC，50／60Hz
消費電力	17W
外形寸法	435(幅)×120(高さ)×265(奥行)mm
重量	4.9kg
付属品	入出力コード 2本(1組)

※この仕様は特に表示した項目を除き，当社基準テープを使用して測定したものです．
※仕様および外観は，改善のため予告なく変更することがあります．

Value of "dB" in the data refers to 0 dB (0.775 V), except where Specified.

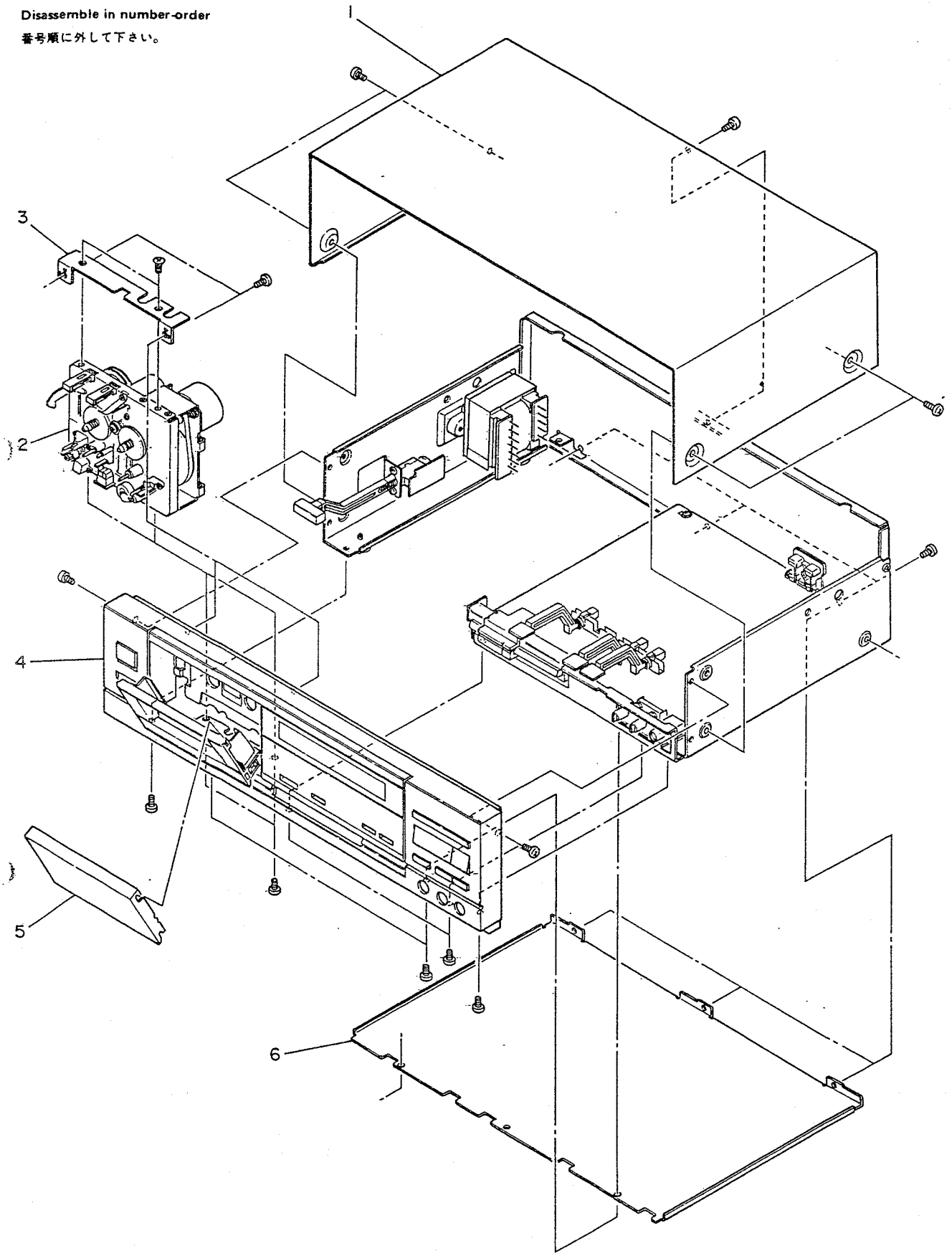
本マニュアルの0 dBは0.775 Vを基準としています．

2 CASE AND FRONT PANEL REMOVAL

外装部品の外し方

Disassemble in number-order

番号順に外して下さい。



3 PARTS LOCATION

部品配置図

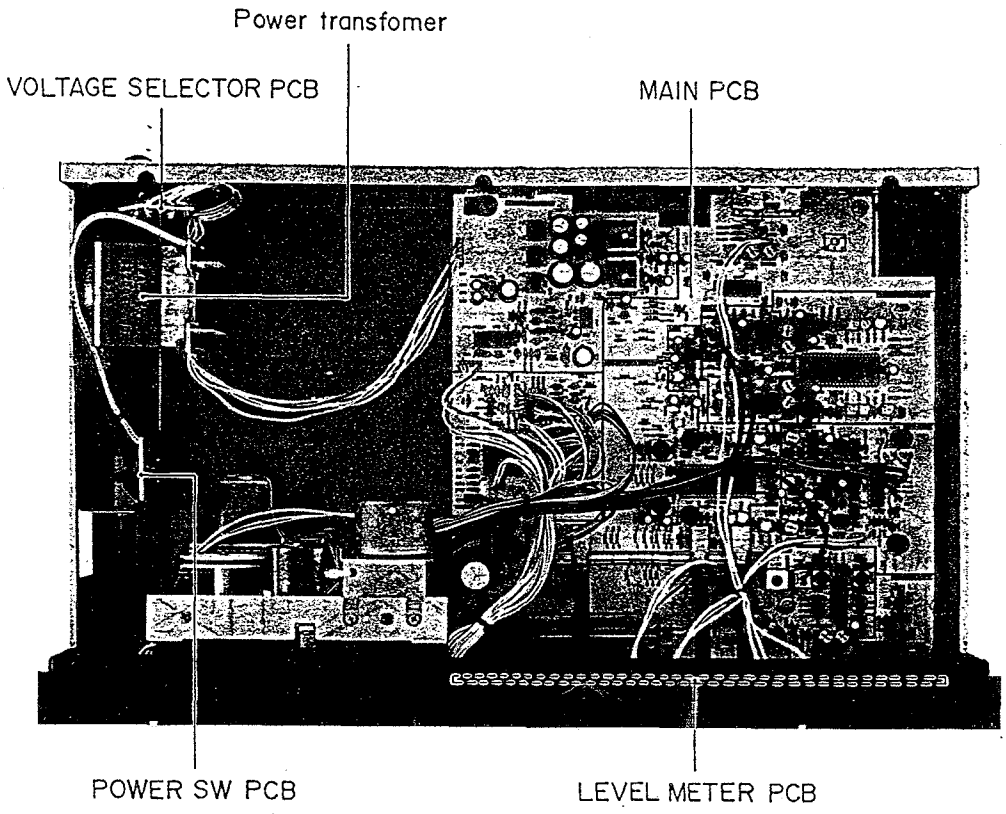


Fig. 3-1 Top view

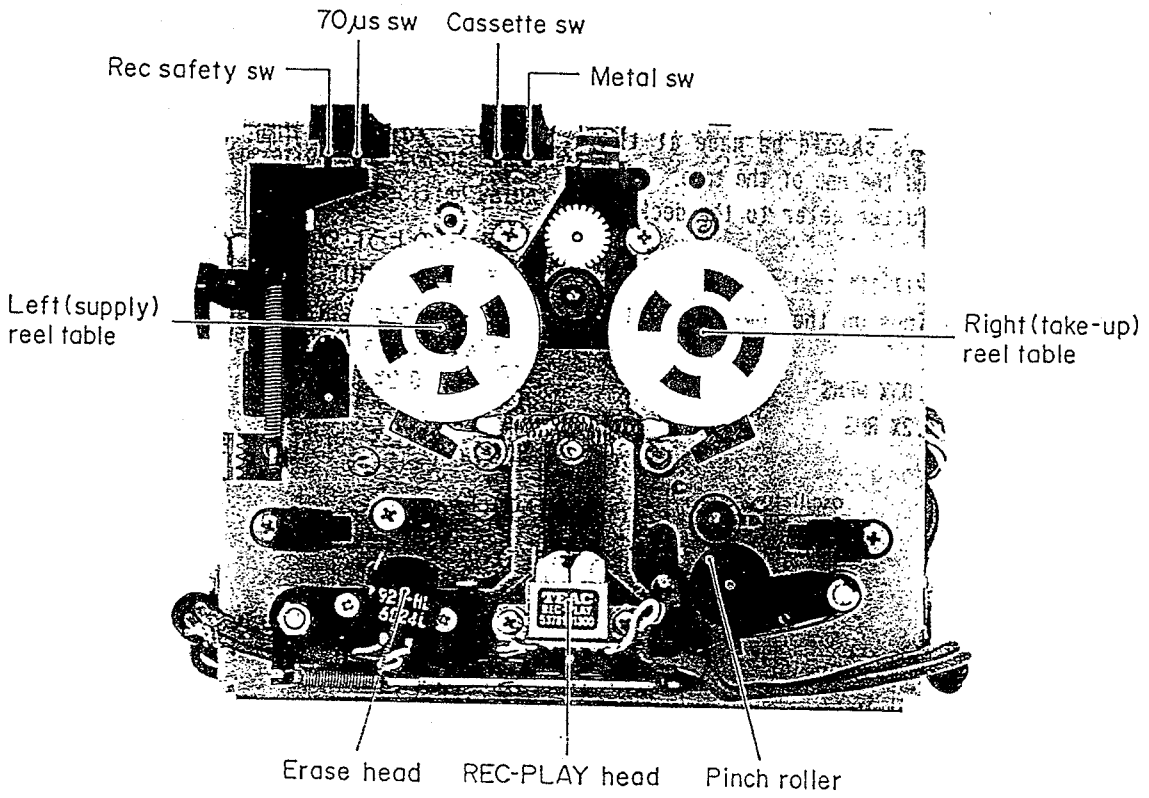


Fig. 3-2 Transport front view トランスポート前面図

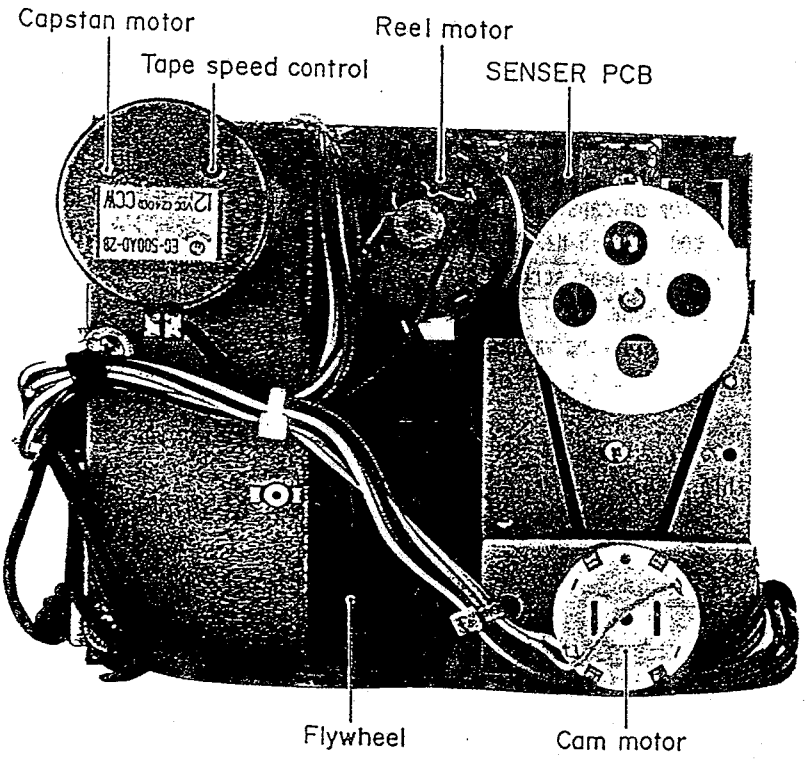


Fig. 3-3 Transport rear view トランスポート後面図

4 MECHANICAL ADJUSTMENT AND CHECKS

機構部の調整と確認

4-1 WOW AND FLUTTER (PLAYBACK METHOD)

Note: These measurements should be made at the beginning, middle, and the end of the tape.

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 4-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the readings on the wow-and-flutter meter are as follows.
   Specifications: 0.05% WRMS
   0.2% RMS

4-1 ワウ・フラッタ (再生法)

注： テープの巻始め，中間，巻終りで測定する．

1. 図 4-1のようにワウ，フラッタメータを接続する．
2. テストテープMTT-111 を再生する．
3. ワウ，フラッタ値が下の規格内に入ることを確認する．
   規格： 0.05% WRMS
   0.2% RMS

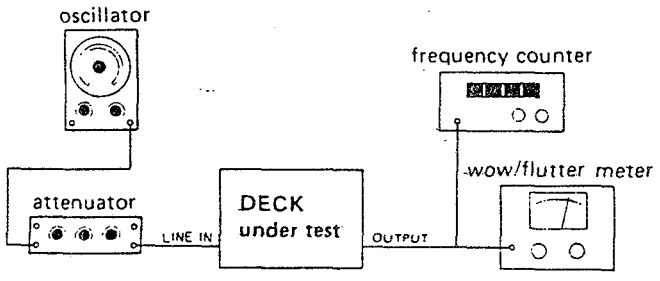


Fig. 4-1

4-2 TAPE SPEED

1. Connect a frequency counter to the deck as shown in Fig. 4-1.
2. Playing the mid portion of an MTT-111 test tape adjust the semi-fixed resistor on capstan motor so that tape speed becomes 3,000 Hz ±5 Hz. An insulated and non-metallic flat-head screwdriver should be used for this adjustment.
3. In play mode, check that the following values are obtained at the beginning and at the end of the tape.
   Deviation: 3,000 Hz ± 45 Hz
   Width of deviation: Within 45 Hz

4-2 テープスピード

1. 図 4-1のように周波数カウンタを接続する．
2. MTT -111テスト・テープの中間部を再生して、テープ速度が 3,000 Hz ± 5Hzになるようにキャプスタン・モータの半固定抵抗を調整する．調整には絶縁された非金属製マイナス・ドライバを使用すること．
3. テープの巻始めと巻終りにて下記の値が得られることを確認する．
   偏差：3,000 Hz± 45 Hz
   変動幅： 45Hz 以内

4-3 REEL TORQUE

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the follwing specified values:
   Specifications:
   Take-up (both FWD/REV):
   30 to 55 g ・cm (0.42 to 0.76 oz・inch)
   Supply (both FWD/REV):
   2.5 to 6 g ・cm (0.0347 to 0.08 oz・inch)
   F.F./REW:
   100 to 160 g ・cm (1.53 to 2.22 oz・inch)

4-3 リール・トルク

1. カセット型トルク・メータによる測定値が下表の範囲内であることを確認する.
   テイクアップ・トルク(FWD,REV共):
   30～ 55g・cm
   バックテンション・トルク(FWD,REV共):
   2.5～ 6g ・cm
   早送り/巻戻しトルク:
   100～160g・cm

4-4 LUBRICATION

Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.
oil: TEAC spindle oil (from TEAC TZ-255 oil kit), Mobil D.T.E. oil Light, or equivalent

1. Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from tdhe free end) of flywheel, then insert the shaft into the capstan housing.

4-4 注油

注油は部品が交換される時のみ必要です。下記指定のオイルを使用すること.
オイル: TEACスピンドルオイル(TEAC TZ-255オイルキットより) モービル D・T・E オイル・ライト又は相当品

1. フライホイル軸の先端から約1/3 下った軸面へ, 注油器にてオイル 1滴を注油後, フライホイル軸をキャプスタン・ハウジングへ挿入する.

4-5 VOLTAGE CONVERSION

(General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINGE CORD BEFORE MAKING THESE ADJUSTMENTS!
2. Locate the vlotage selector on the rear panel.
3. Using a regular screwdriver, turn the selector until the numerals corrsponding to the voltage requirements of your area appear.

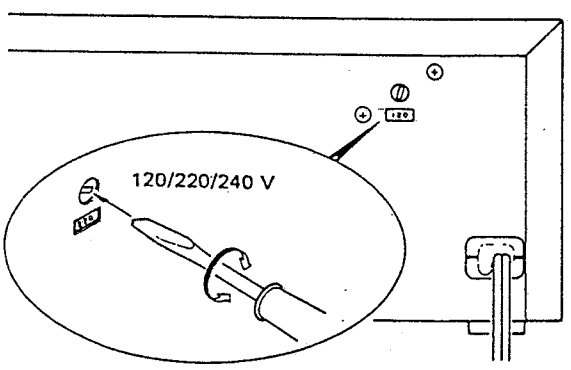


Fig. 4-2

5 ELECTRICAL ADJUSTMENT AND CHECKS

アンプ部の調整と確認

5-1 PRECAUTIONS

1. Before performing adjustments and checks clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. indicate L-ch/R-ch. (Example; R11/R21)
4. 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohmes or more.
6. Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
7. Since this deck has an automatic tape selector, be sure to use test tapes that have tape position detecting holes.
8. Input terminals and measuring points at each step are the same as previous step, otherwise specified

5-1 注意

1. アンプ部の調整・確認の前に，テープ走行系の消磁と清掃を行なってください．
2. 特に指定の無い限り，調整はL ch, R chの順序で行なって下さいる
   尚R11/R21 のように記されている回路番号はL ch/R ch を示します．
3. 0 dB= 0.775V
4. 測定に使用するレベル計の入力インピーダンスは1MΩ 以上のものを使用してください．
5. 本機はテープ・セレクタ自動検出機構になっていますので，テスト・テープは必ずテープ・ポジション検出穴のあるものを使用して下さい．
6. 入力端子及び測定個所は各ステップに於いて特に明示されている場合を除き，直前のステップと同じです．

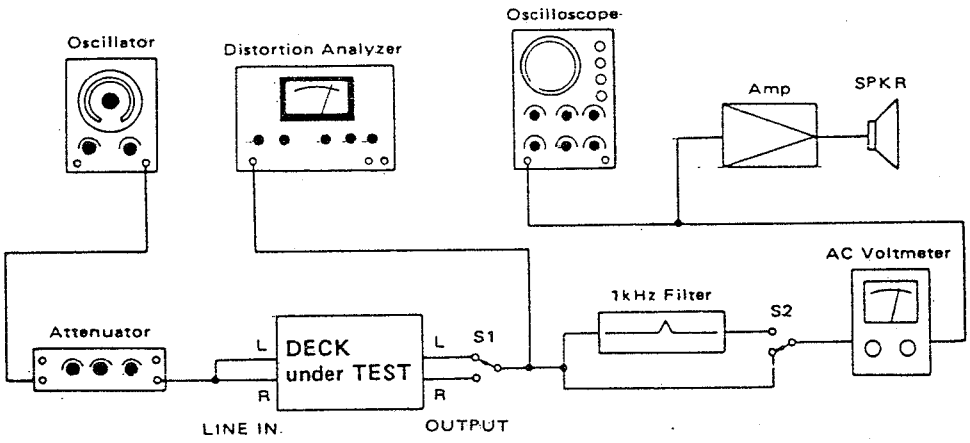
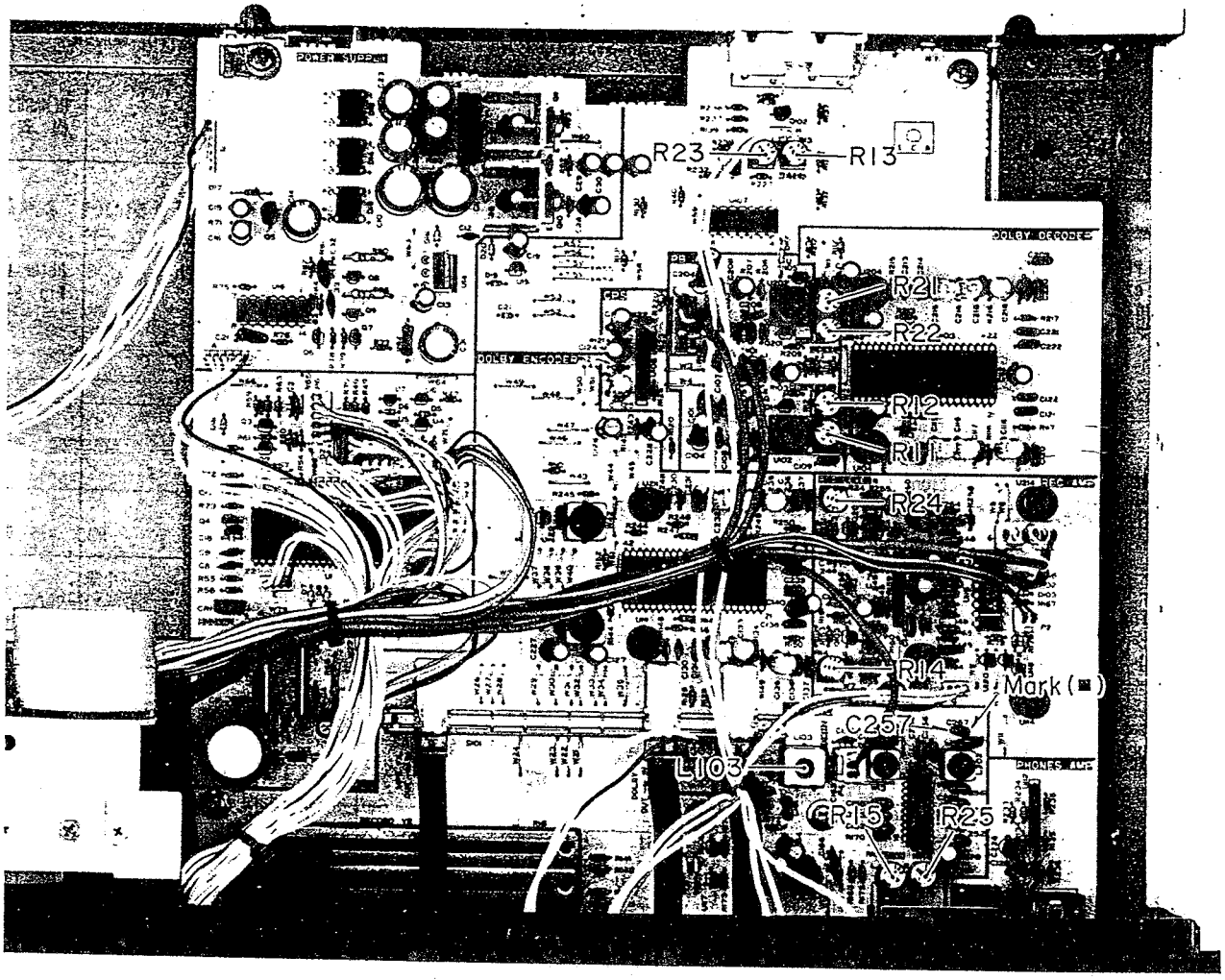


Fig. 5-1 Basic test setup 基本測定接続図

5-2 ADJUSTMENT LOCATIONS
調整個所



R12/R22	Specified output level	規定出力レベル
R15/R25	Record bias	録音バイアス
R14/R24	Record level	録音レベル
R13/R23	PEAK LEVEL METER	ピーク・レベル・メータ
R11/R21	Playback frequency response	再生周波数特性
L103	Bias osc. frequency	発振用波数

Fig. 5-2

5-3 PLAYBACK PERFORMANCE
再生系

Deck settings:
HPX FILTER sw: OUT
NR SYSTEM sw: OUT

TEAC test tapes:
MTT-150: For Dolby level calibration
MTT-256: For playback frequency response check for NORMAL
MTT-356: For METAL and CrO_2
MTT-5561: For S/N check for CrO_2
MTT-5511: For S/N check for NORMAL

ITEM 調整項目	SETTING 設 定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整個所	MEASURING POINT, RESULT 測定個所・調整値	REMARKS 備 考
1. REC・PLAY head azimuth 録・再ヘッド アジマス	Connection: Fig. 5-3 接続	MTT-150	Check	OUTPUT: Phase: within 45° 位 相: 45° 以内	Refer to Fig. 5-4
		MTT-256 (10 kHz)	Azimuth screws of R・P head (Fig.5-6) 録・再ヘッドのアジマス調整ネジ	Phase between L-ch /R-ch: 0° Max. output at L- & R-ch's L-R 間の位相差が 0° で且つ各ch共最大出力	
2. Specified output level 規定出力レベル	Connection: Fig. 5-1 接続	MTT-150	R12/R22	-5dB(436mV)	
3. Meter level setting メータ・レベル・セット	〃	MTT-150	R13/R23	PEAK LEVEL METER: 0 dB	
4. Playback frequency response 再生周波数特性	〃	MTT-256	R11/R21	OUTPUT: Nearly equal output level at 315 Hz & 10 kHz 315 Hzと 10 kHz の出力がほぼ等しくなるよう調整 ・Standard 規格 : Fig. 5-5	
5. playback S/N ratio 再生S/N 比	〃	MTT-5561 (Playing a leader tape) (リーダーテープ部を再生)	Check	46 dB min.	Ratio of spec. output of -5 dB to noise 基準信号レベルは規定出力(-5dB)レベル
	〃	MTT-5511 (〃)	Check	45 dB min.	

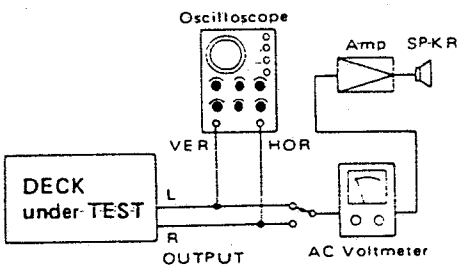


Fig. 5-3 Test setup for azimuth check
位相測定接続図

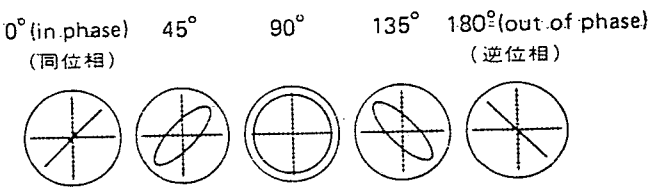


Fig. 5-4 Confirming phase relationship
位相

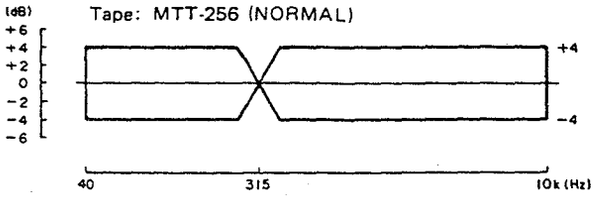


Fig. 5-5 Playback frequency response
再生周波数特性

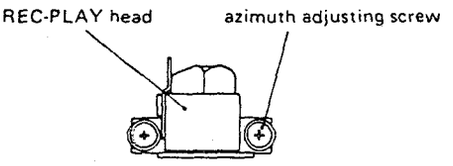


Fig. 5-6 Azimuth screw location
位相調整ネジ

5-4 MONITOR PERFORMANCE
モニター系

Deck settings: RECORD-PAUSE mode
NR SYSTEM sw: OUT
HPX FILTER sw: OUT

ITEM 調整項目	SETTING 設 定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整個所	MEASURING POINT, RESULT 測定個所・調整値	REMARKS 備 考
6. Min. LINE input level ライン最小入力レベル	Connection:Fig. 5-1 接続 RECORDING LEVEL cont.:MAX	LINE IN: 400 Hz/-19dB (86.9mV)	Check	OUTPUT: -5dB ±3dB (308mV~615mV)	
7. Specified LINE input level LINE規定入力レベル	〃	400 Hz/-9dB (275mV)	RECORDING LEVEL cont. (L/R)*	-5dB (436mV)	
		*After adjusting, do not move (Specific position) *調整後は動かさないこと（規定位置）			
8. PHONES output level PHONES出力レベル	Connection: Fig. 5-7 接続 PHONES L. cont.:MAX	〃	Check	PHONES: At each channel 各チャンネルで -15dB ±3dB (97.5mV ~195mV)	8Ω load 負荷

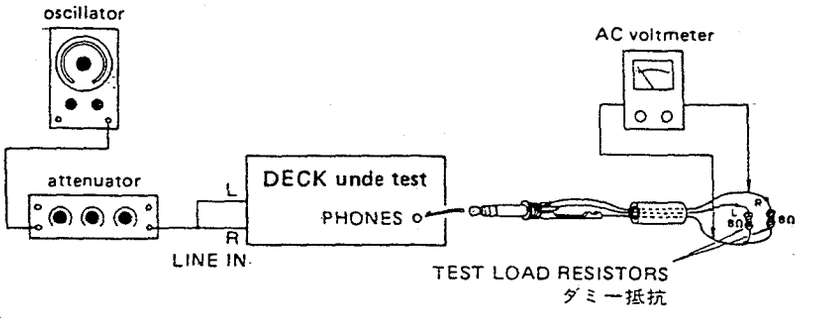


Fig. 5-7 Test setup for PHONES check ホーン出力測定接続図

5-5 RECORDING PERFORMANCE
録音系

Deck settings:
NR SYSTEM sw: OUT
HPX FILTER sw: OUT
RECORD cont.(L/R): Spec. position(item 7)
7項の規定位置
BIAS FINE cont.: Center position

TEAC recording test tapes
MTT-5571 : For METAL
MTT-5561 : For CrO_2
MTT-5511 : For NORMAL

ITEM 整理項目	SETTING 設 定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整個所	MEASURING POINT. RESULT 測定個所・調整値	REMARKS 備 考
9. BIAS osc. frequency 発振周波数	Connection:Fig.5-8 接続 Tape: MTT-5571 RECORD-PAUSE mode	no signal	L103	C257: ■ Mark マーク 100kHz	Refer to Fig.5-8
10. Record bias 録音バイアス	Connection: Fig. 5-1 接続 Tape: MTT-5511	LINE IN: 400Hz & 10kHz alternately/-42dB (6.15mV) Record and reproduce them. 両信号を交互に録音し再生する.	R15/R25	OUTPUT: Nearly equal level at both frequencies 両周波数の録再出力差が同程度になるよう調整	Repeat if the result is unsatisfactory 不十分なら録再を繰返し調整
11. Record level 録音レベル	Tape: MTT-5511	400Hz/-12dB (195mV) Record and reproduce them. 信号を録音し, 再生する.	R14/R24	-8dB(308mV)	
	Tape: MTT-5571 Tape: MTT-5561 Tape: MTT-5511 NR SYSTEM: IN & OUT		Check	-8dB ±3dB (218mV～436mV)	
12. Total harmonic distortion 総合歪率	Tape: MTT-5571 Tape: MTT-5561 Tape: MTT-5511	LINE IN: 400Hz/-12dB (195mV)	Check	MTT-5571:2.0% or less MTT-5561:2.0% or less MTT-5511:2.5% or less	
13. BIAS FINE control check BIAS FINE つまみチェック	Tape: MTT-5511 BIAS FINE cont: Fully "−" position, then fully "+" position "−" 方向一杯, 次に "+" 方向一杯	10kHz/-42dB (6.15mV)	Check	Measure output level (record playback) at "−" position then at "+" position 録再出力を "−" 方向と "+" 方向でそれぞれ測定する. Variation between "−" and "+" positions: "−" と "+" 間のレベル変化: 5dB or more 以上	
14. Overall frequency response 録再周波数特性	Tape: MTT-5571 Tape: MTT-5561 Tape: MTT-5511	Required frequencies: 規格で必要とされる周波数: -42dB(6.15mV)	Check	Standard: 規格 Fig. 5-9	
15. Overall S/N ratio 録再S/N 比	Tape: MTT-5571 Tape: MTT-5561 Tape: MTT-5511	1kHz/-9dB (275mV) ↓ no signal	Check	OUTPUT: 45dB min. [METAL, CrO_2] 44dB min. [NORHAL]	Ratio of specified output of -5dB to noies 基準信号レベルは規定出力(-5dB)レベル

ITEM 調整項目	SETTING 設 定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整個所	MEASURING POINT, RESULT 測定個所・調整値	REMARKS 備 考
16. Erase efficiency 消去効果	Connection is same as in Fig. 5-1. but engage 1-kHz filter. Record a 1-kHz signal. Rewind tape to midpoint of recorded portion. Erase the recorded portion with no input signal. Find the difference between the 1-kHz portion and the "no-sognal" portion. 接続Fig. 5-1. 1kHz B.P.F. 使用 ,1kHz信号を録音後中間まで巻戻し一部を消去. 未消去部分と消去部分の1kHz出力レベル差を測定.				
	Tape: HTT-5571	1kHz/+1dB (0.869mV) ↓ no signal	Check	OUTPUT: 65dB min. ratio	Ref. output level: +5dB(1.38V) 基準レベル: +5dB
17. REC MUTE function REC MUTE効果	Connection:Fig. 5-1, but engage 1-kHz fier. Record a 1-kHz signal. Push REC MUTE buton for several seconds.(At this time. make sure LED lights). Rewind and play the tape. Find the difference between the 1-kHz portion and the "no-signal" portion. 1kHz B.P.F. 使用. 1kHz信号を録音し, 途中REC MUTE釦を押し無信号部を作る. そのテープを再生し, 録音部と無信号部の出力レベル差を測定.				
	Tape: HTT-5571	1kHz/+1dB (0.869mV) ↓ no signal	Check	65dB min. ratio	Ref. output level: 基準レベル: +5dB (1.38V)
18. Channel separation チャンネル・セパレーション	・Connection: Fig. 5-1, but do not connect LINE IN (R), and engage 1-kHz filter. ・Set the deck to record mode. Find the difference between the 1-kHz recorded portion (L-ch) and the "no signal" portion (R-ch). R-ch無接続. 1kHz B.P.F. 使用. 1kHz録音部分(L-ch)と無信号録音(R-ch)の1kHz再生出力レベルの差を測定.				
	Tepe: HTT-5571	L-ch 125Hz/-9dB (275mV) R-ch No signal 無信号	Check	30dB min. ratio	
19. Adjacent track crosstalk トラック間クロストーク	・Connection: Fig. 5-1, but do not connect LINE IN (L) and OUTPUT (L). ・Rccord a 125-Hz signal no R-ch and note output level. Invert tape and play R-ch track. Check leckage level against the output reference of previously recorded portoin. L-ch無接続. R-chに125Hz を録音し, その再生出力を基準レベルとする. 次にテープを反転し, 再生したときのR-ch出力レベルとの差を測定.				
	Tape: HTT-5571	L-ch No signal 無信号 R-ch 125Hz/-9dB (275mV)	Check	40dB min. ratio	
20. HPX FILTER effect 効果	RECORD-PAUSE mode HPX FILTER sw: ON	LINE IN 19kHz/-9dB (275mV)	Check	OUTPUT: The level difference between OFF and ON positions on HPX FILTER switch HPX FILTERスイッチがOFF時とON時の出力レベル差 30 dB min.	

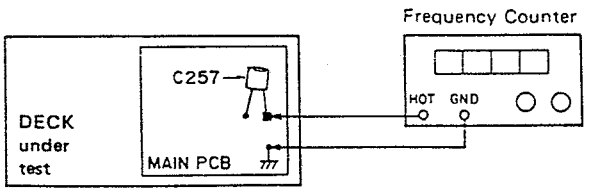


Fig. 5-8

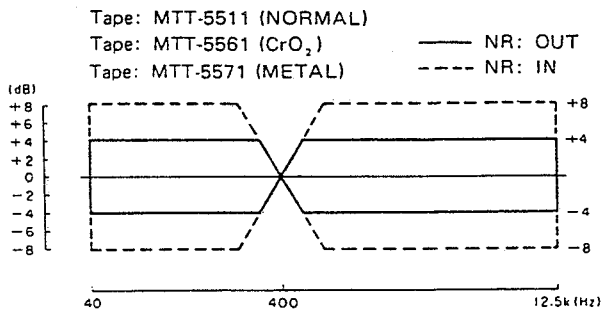
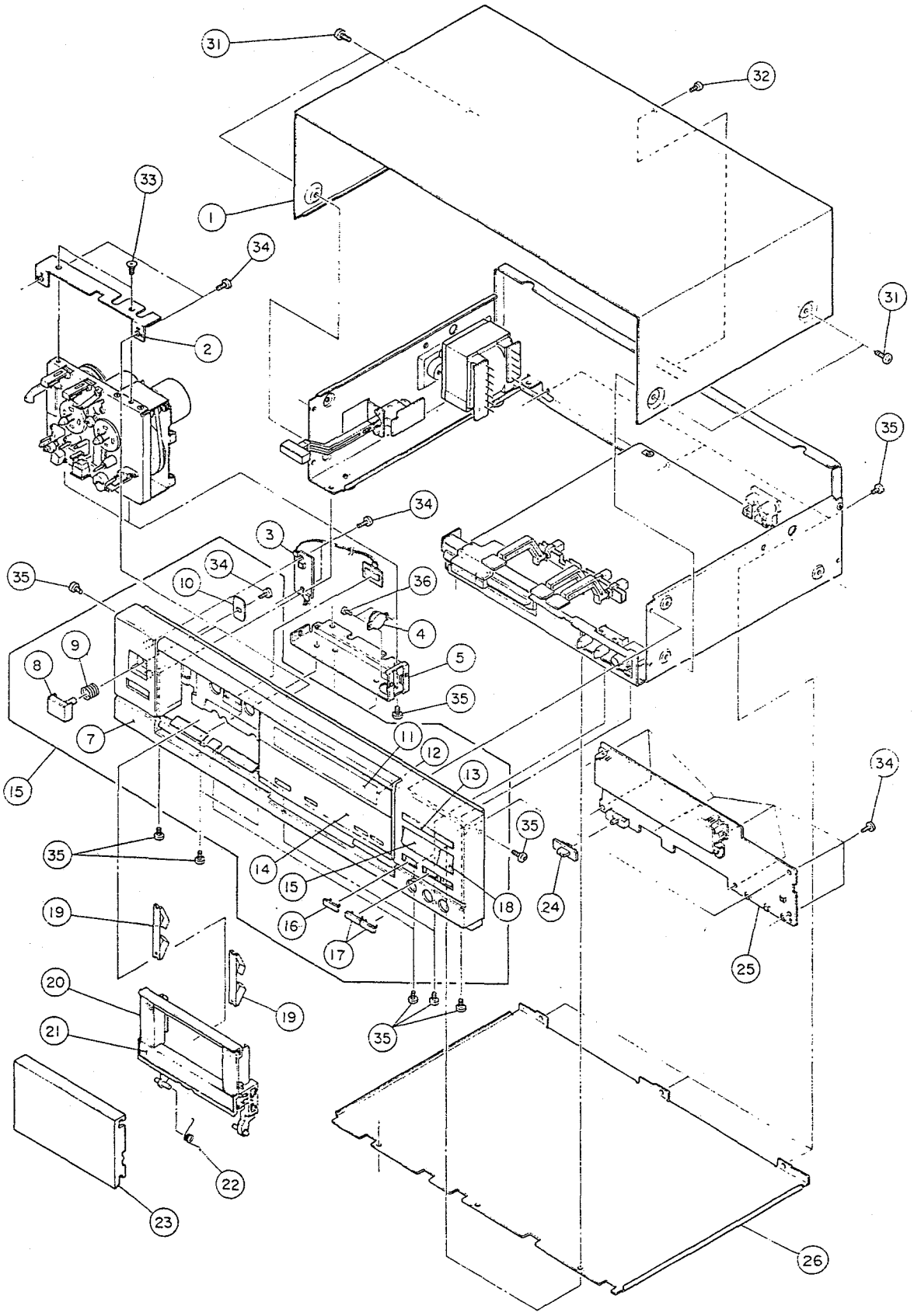


Fig. 5-9 Overall frequency response
録再周波数特性

6 EXPLODED VIEWS AND PARTS LIST
分解図とパーツ・リスト

EXPLODED VIEW-1



EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	*5800809700	BONNET	
1- 2	*5800820601	PLATE(B),MECHANISM	
1- 3	*5200199600	EJECT SW PCB ASSY	Ref. Page 22 & 25
1- 4	*5730012200	DAMPER ASSY	
1- 5	*5800820500	PLATE(A),MECHANISM	
1- 6	*5800820201	PANEL(D)ASSY,FRONT	
1- 7	*5800820301	PANEL(D),FRONT	
1- 8	5800806600	BUTTON(B),EJECT	
1- 9	*5800784900	SPRING,EJECT	
1-10	*5800821300	BRACKET,EJECT	
1-11	*5800835100	WINDOW(A),METER	
1-12	*5800807000	SHEET,METER	
1-13	5800807700	BUTTON(D)	
1-14	*5800820400	SHEET(D),MODE	
1-15	5800834800	BUTTON(G)	
1-16	5800807800	BUTTON(E)	
1-17	5800807900	BUTTON(F)	
1-18	5800834900	BUTTON(H)	
1-19	5800603801	SPRING,CASS.PRESS.	
1-20	*5800820700	HOLDER(B) ASSY,CASSETTE	
1-21	*5800820800	SHEET(C),HOLDER	
1-22	*5800803601	SPRING,HOLDER UP	
1-23	5800821800	WINDOW(A),CASSETTE	
1-24	5800808201	KNOB	
1-25	*5200199500	LEVEL METER PCB ASSY	Ref. Page 24 & 26
1-26	*5800809600	COVER,BOTTOM	
1-31	*5800612400	SCREW,BONNET M3X8 BLK	
1-32	*5783613008	SCREW,C TITE M3X8 BNI	
1-33	*5783043006	SCREW,FLAT;S TITE M3X6	
1-34	*5783603008	SCREW,BIND;P TITE M3X8	
1-35	*5783033006	SCREW,BIND;S TITE M3X6	
1-36	*5780002004	SCREW,BIND M2X4	

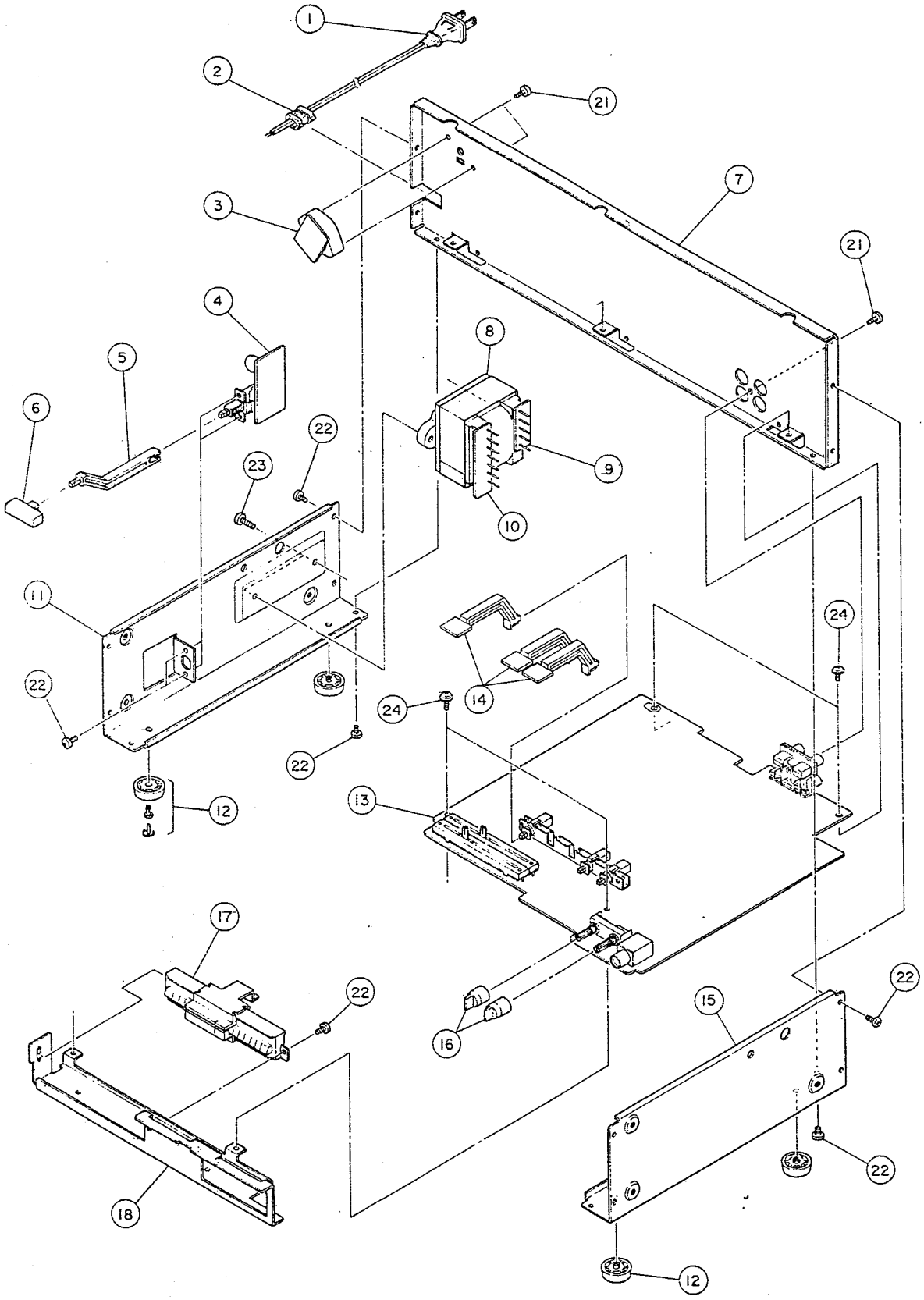
INCLUDED ACCESORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*5700083500	OWNER'S MANUAL [J]	
	*5700083600	OWNER'S MANUAL [EXCEPT J]	
	*5350011600	CORD,IN-OUT 1.0M	

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA
[A]:AUSTRALIA [GE]:GENERAL EXPORT [J]:JAPAN

Parts marked with *require longer delivery time.

EXPLODED VIEW-2



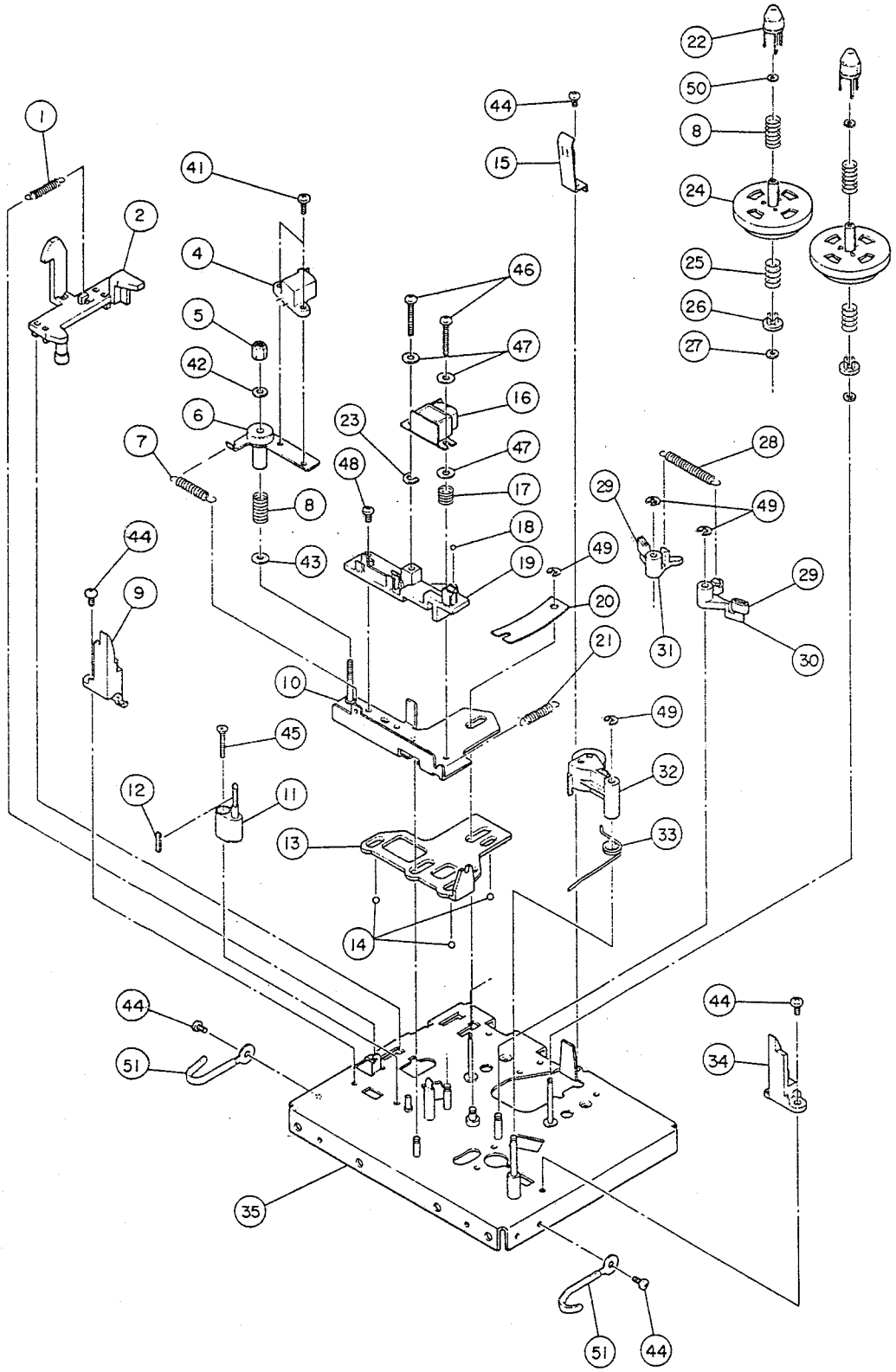
EXPLODED VIEW-2

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	⚠*5128027000	CORD,AC [J]	
	⚠*5128047000	CORD,AC [UK]	
	⚠*5350008300	CORD,AC [A]	
	⚠*5350010800	CORD,AC [US,C,GE]	
	⚠*5350011700	CORD,AC [E]	
2- 2	⚠*5317003400	BUSHING 2271	
2- 3	*5200200000	VOLTAGE SELECTOR PCB ASSY [GE]	Ref. Page 22 & 25
2- 4	*5200199700	POWER SW PCB ASSY	Ref. Page 22 & 25
2- 5	*5800740500	ROD	
2- 6	5800752300	BUTTON,POWER(B)	
2- 7	*5800835000	PANEL(B),REAR	
2- 8	⚠ 5320040300	TRANSFORMER,POWER [J]	
	⚠ 5320040400	TRANSFORMER,POWER [US]	
	⚠ 5320040500	TRANSFORMER,POWER [C]	
	⚠ 5320040600	TRANSFORMER,POWER [E,UK,A]	
	⚠ 5320040700	TRANSFORMER,POWER [GE]	
2- 9	*5210199900	TRANSFORMER PCB EX [GE]	
2-10	*5210199800	TRANSFORMER PCB A	
2-11	*5800809400	CHASSIS L	
2-12	*5730003300	FOOT,FF-008(P4X6)	
2-13	*5200199400	MAIN PCB ASSY	Ref. Page 23 & 25
2-14	5800808300	BUTTON,PUSH	
2-15	*5800809300	CHASSIS R	
2-16	5800821900	KNOB(B),VR	
2-17	*5800808400	RAIL(A) ASSY,VR	
2-18	*5800809200	BRACKET,PCB	
2-21	*5783603008	SCREW,BIND P TITE M3X8	
2-22	*5783033006	SCREW,BIND S TITE M3X6	
2-23	*5781104016	SCREW,TAP;BIND M4X16	
2-24	*5783073006	SCREW,PAN CAP S TITE M3X6	

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA
[A]:AUSTRALIA [GE]:GENERAL EXPORT [J]:JAPAN

Parts marked with *require longer delivery time.

EXPLODED VIEW-3

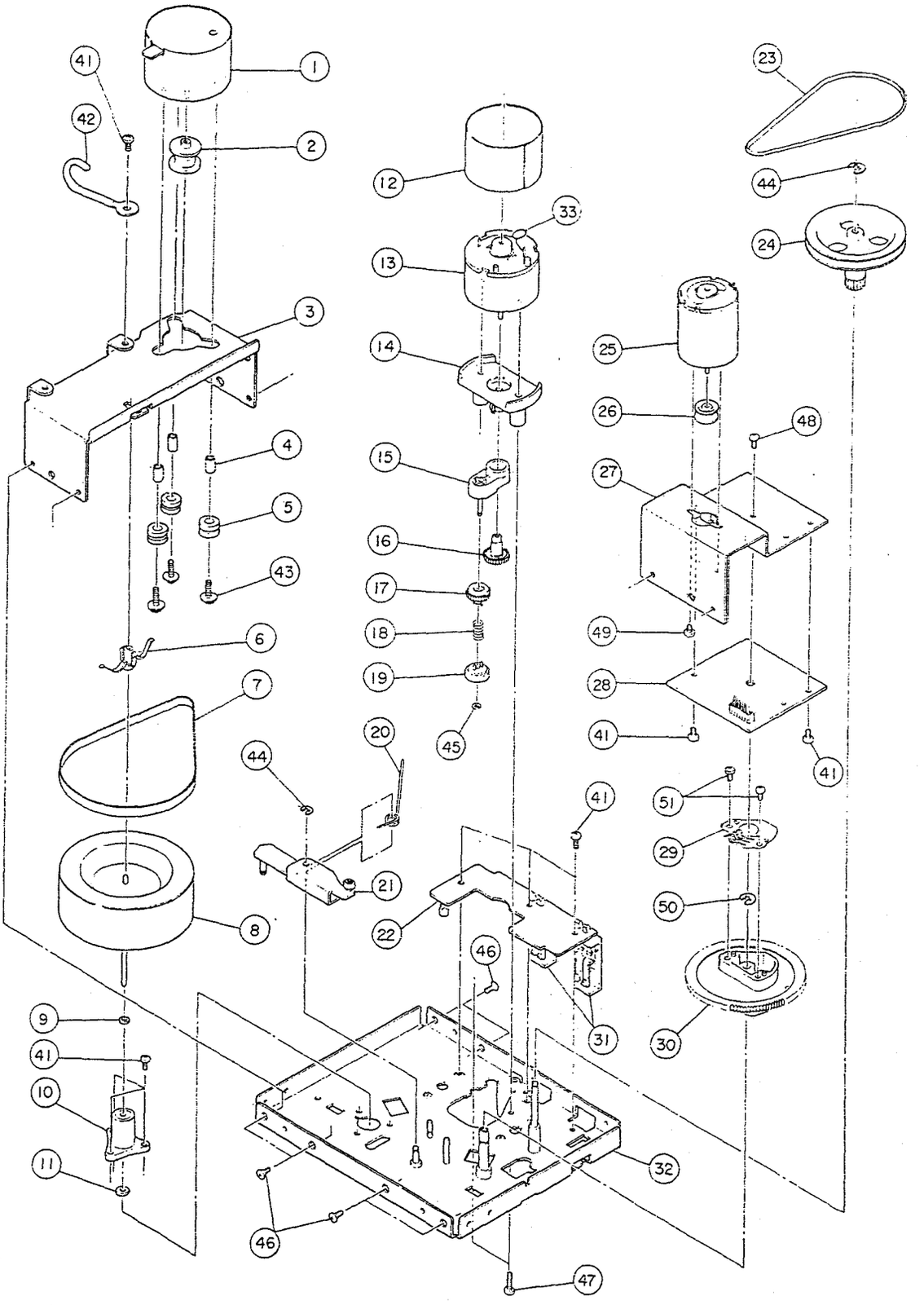


EXPLODED VIEW-3

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
3- 1	*5800737200	SPRING,LOCK	
3- 2	*5800821400	LEVER(B)ASSY,LOCK	
3- 3	Vacant		
3- 4	5378904300	HEAD,ERASE 4-4	
3- 5	*5781953000	NUT,NYLON M3	
3- 6	*5800234601	PLATE ASSY,HEAD	
3- 7	*5800519001	SPRING,E.HEAD PRES.	
3- 8	*5800231300	SPG.,REEL	
3- 9	5800821600	GUIDE(L),CASSETTE	
3-10	*5800235600	BASE SUB ASSY,HEAD	
3-11	*5800235100	HOLDER,PAD	
3-12	5800235201	PAD,HEAD	
3-13	*5800122802	SLIDER	
3-14	*5540056000	STEEL BALL 3MM	
3-15	5800734901	SPRING,CASSETTE	
3-16	5378901300	HEAD,R/P COMBINATION	
3-17	*5800114700	SPRING,HEAD ADJUSTMENT	
3-18	*5540055000	STEEL BALL 2MM	
3-19	*5800238303	HOLDER(B),HEAD	
3-20	*5800735000	SPRING,HEAD	
3-21	*5800455100	SPRING,ARM BASE	
3-22	5800236501	RING,DRIVE	
3-23	*5800468900	SPACER,HEAD	
3-24	5800735800	REEL TABLE ASSY,	
3-25	*5800481901	SPRING,B. TENSION	
3-26	*5800231500	HOLDER,SPRING	
3-27	*5800539800	WASHER 1.7X4X0.3T	
3-28	*5800616100	SPRING,BRAKE	
3-29	*5800126401	SHOE,BRAKE	
3-30	*5800439701	ARM(R) BRAKE	
3-31	*5800439601	ARM(L).BRAKE	
3-32	5800239002	PINCH ROLLER ASSY	
3-33	*5800735601	SPRING,ARM;PINCH	
3-34	5800821700	GUIDE(R),CASSETTE	
3-35	*5800737300	CHASSIS ASSY,MECHANISM	
3-41	*5780002006	SCREW,BIND M2X6	
3-42	*5785313000	POLYSLIDER 3X6X0.5T	
3-43	*5785003000	FLAT WASHER.3X8X0.5T	
3-44	*5783032606	SCREW,BIND;S TITE M2.6X6	
3-45	*5783042614	SCREW,FLAT;S TITE M2.6X14	
3-46	*5780002016	SCREW,BIND M2X16	
3-47	*5785012000	WASHER 2X6X0.5T	
3-48	*5780002005	SCREW,BIND M2X5	
3-49	*5786002000	E RING E-2 (JIS)	
3-50	*5785331100	POLYSLIDER 1.2X3.6X0.5T	
3-51	*5581038000	HARNESS CLIP(A)	

Parts marked with *require longer delivery time.

EXPLODED VIEW-4



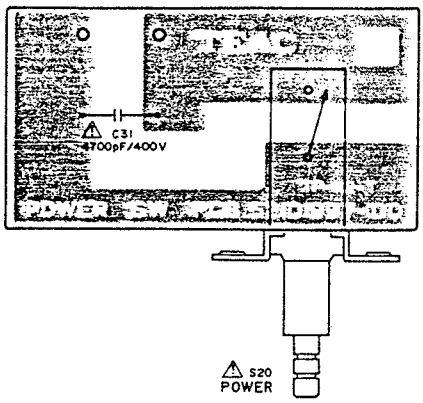
EXPLODED VIEW-4

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
4- 1	5370004200	MOTOR,C.DC	
4- 2	5800232200	PULLEY,MOTOR	
4- 3	*5800737600	BRACKET(A),MOTOR	
4- 4	*5785603050	SPACER 3.0X5.0MM	
4- 5	*5534537000	CUSHION,RUBBER	
4- 6	*5800236900	BEARING,THRUST	
4- 7	5800735500	BELT	
4- 8	5800735100	CAPSTAN ASSY	
4- 9	*5800735300	WASHER,THRUST	
4-10	5800238800	HOUSING ASSY,CAPSTAN	
4-11	*5800735401	WASHER,OIL RETAINER	
4-12	*5800235900	PLATE,SHIELD	
4-13	5370002502	MOTOR,REEL;DC	
4-14	*5800732601	HOLDER,MOTOR	
4-15	*5800461500	ARM ASSY,PULLEY	
4-16	5800736000	PULLEY,GEAR(A)	
4-17	5800461600	PULLEY(B)ASSY,GEAR	
4-18	*5800430200	SPRING,PULLEY	
4-19	5800430302	PULLEY ASSY	
4-20	*5800530101	SPRING(B),BASE RETURNING	
4-21	*5800736600	ARM ASSY,ACTUATING	
4-22	*5200182200	SENSER PCB ASSY	
4-23	5800772000	BELT	
4-24	5800117200	PULLEY,REDUCTION	
4-25	5370005100	MOTOR,DC	
4-26	5800123300	PULLEY,V	
4-27	*5800737700	PLATE(B),MOTOR	
4-28	*5210184100	PCB,CAM	
4-29	*5800595300	PLATE,CONTACT	
4-30	5800737800	CAM.CONTROL	
4-31	5301753700	SW.,LEAF	
4-32	*5800737300	CHASSIS ASSY,MECHANISM	
4-33	*5173395000	C.,CERAMIC 0.047MF 50V	
4-41	*5783032606	SCREW,BIND;S TITE M2.6X6	
4-42	*5581038000	HARNESS CLIP(A)	
4-43	*5780142608	SCREW,PAN;SEMS B M2.6X8	
4-44	*5786002000	E RING E-2 (JIS)	
4-45	*5785331500	WASHER,POLIS. 1.5X4X0.5T	
4-46	*5783042605	SCREW,FLAT;S TITE M2.6X5	
4-47	*5780002617	SCREW,BIND M2.6X17	
4-48	*5780002005	SCREW,BIND M2X5	
4-49	*5780002603	SCREW,BIND M2.6X3	
4-50	*5786003000	E RING E-3 (JIS)	
4-51	*5781112004	SCREW,TAP;BIND M2X4	

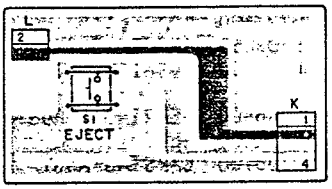
Parts marked with *require longer delivery time.

7 PC BOARDS AND PARTS LIST
基板図とパーツ・リスト

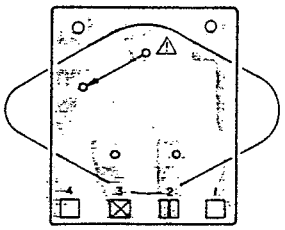
POWER SW PCB ASS'Y



EJECT SW PCB ASS'Y



VOLTAGE SELECTOR PCB ASS'Y



NOTES

1. PC boards are shown viewed from foil side.
2. The colors on the PC board illustrations have the following significance:
   : +B power supply circuit
   : −B power supply circuit
   : GND
   : other
3. Resistor values are in ohms (k=kilo-ohms M=megohms).
4. All capacitor values are in microfarads (p=picofarads).
5. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components. Refer to the appropriate parts list to ensure exact replacement.

注

1. 基板図はパターン面が示されています.
2. プリント・パターンは次のように色別されています.
   : +B電源回路
   : −B電源回路
   : GND
   : その他の回路
3. 抵抗の単位はΩ(k=kΩ, M=MΩ)です.
4. コンデンサの単位はμF(p=pF)です.
5. ⚠マークのある部品は安全重要部品です. 交換するときは必ずティアック指定の部品を使用してください.

POWER SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200199700	POWER SW PCB ASSY
	*5210199700	POWER SW PCB
C031	△5267703800	SPARK KILLER,4700PF400V M
S020	△5300031900	SW.,PUSH 1-1

EJECT SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200199600	EJECT SW PCB ASSY
	*5210199600	EJECT SW PCB
D001	5225015100	LED,SLF301C
S001	5302103200	SW.,TACT KHH10910

VOLTAGE SELECTOR PCB ASSY [GE]

REF.NO.	PARTS NO.	DESCRIPTION
	*5200200000	VOLTAGE SELECTOR PCB ASSY
	*5210200000	VOLTAGE SELECTOR PCB
	△*5332016300	VOLTAGE SELECTOR FS907BB

SENSER PCB ASSY (PC Board Omitted)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200182200	SENSER PCB ASSY
	*5210182200	SENSER PCB
	*5800735900	SPACER
Q001	5228010400	PHOTO REFLEC.,NJL5141E-B

Note
As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.

[GE]:GENERAL EXPORT

Parts marked with *require longer delivery time.

MAIN PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200199400	MAIN PCB ASSY
	*5210199400	MAIN PCB
	*5555590000	PLATE.PCB EARTH;A
	*5800834700	HOLDER,VR
	*5800752900	HEAT SINK
	*5783603008	SCREW,BIND P TITE M3X8
CR01	5347000900	CERAMIC OSC KBR-800H
D002-D008	5224015020	DIODE,1SS133T-77
D009	5224572001	DIODE,ZENER RD3.3EL2 FR
D010	5224573801	DIODE,ZENER RD6.2EL2 FR
D011	5224575701	DIODE,ZENER RD11EL2 FR
D012	△5224014400	DIODE,SM-1A-02 LFA
D013-D015	△5228010700	SILICON STACK,S1WB8(A)20
D016	5224015020	DIODE,1SS133T-77
D017	5224544901	DIODE,ZENER RD22EB1 FR
D018-D021	5224015020	DIODE,1SS133T-77
D101	5224012920	DIODE,1S2473
D102,D103	5224015020	DIODE,1SS133T-77
J009	5330012200	JACK,3P
J010	5330510600	PIN JACK 4P
L101,L201	5286008700	COIL,CHOKE 8.2MH
L102,L202	5286025700	COIL,STEP UP
L103	5286026000	OSC COIL 100KHZ
L104,L105	5286006700	COIL,CHOKE 1.2MH
P001	5336135600	CON.,PLUG 8263-0612 RED
P002	5336126200	CON.,PLUG 8263-0212 WHT
P003	5336126600	CONNECTOR PLUG WHT
P004	5336126300	CONNECTOR PLUG WHT
P005	5336137600	CONNECTOR PLUG BLK
P006	5336126500	CONNECTOR PLUG WHT
P007	5336126400	CONNECTOR PLUG WHT
P008	5336135400	CONNECTOR PLUG RED
Q002-Q004	5230780920	SI.TR.2SC2603F
Q005	5231761300	SI.TR.2SD734F
Q006	5230018920	SI.TR.2SA1115F
Q007	5230018920	SI.TR.2SA1115F
Q008,Q009	5230780920	SI.TR.2SC2603F
Q010	△5231756200	SI.TR.2SD882-Q P
Q011	△5230508900	SI.TR.2SB772P
Q101,Q201	5230780920	SI.TR.2SC2603F
Q102,Q202	5231761400	SI.TR.2SD1302S
Q103,Q203	5230780920	SI.TR.2SC2603F
Q104	5230780920	SI.TR.2SC2603F
Q105	5230780920	SI.TR.2SC2603F
Q106	5230018920	SI.TR.2SA1115F
R11 R21	5280021704	R.,TRIMMER 47KB H.
R12 R22	5280021304	R.,TRIMMER 10KB
R13 R23	5280021704	R.,TRIMMER 47KB H.
R14 R24	5280021304	R.,TRIMMER 10KB
R15 R25	5280021304	R.,TRIMMER 10KB
R16	5284010202	VR.,50KAX2 SLIDE
R17	5282411800	1S2UVR 9, 20KAX2
R18	5282016300	1S1UVR 9, 5KB
R065	△5241215510	R.,NONFLAMMABLE 10 J FF
R068	△5241182910	R.,INCOMB. 4.7 OHM 1W J

MAIN PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
R080,R085	△5241217110	R.,NONFLAMMABLE 1W 47 J
R094	△5181986000	R.,INCOMBUSTIBLE 33
S101	5300043600	SWICTH,PUSH PSE053AF
U001	5220806601	IC.,LC6510C-3033
U002,U003	5220427800	IC.,BA6209
U004-U013	5232252520	TR.,DIGITAL RT1N241S
U014	5220430300	IC.,L78MR05
U015	5232252620	TR.,DIGITAL RT1P241S
U016	5220040400	IC.,M4011BP
U017	5220425800	IC,M5230LA
U101	5220426900	IC.,M5220P
U102,U202	5292805700	FILTER,LOWP.100KHZ
U103	5220427000	IC.,CX20187
U104,U204	5292806000	FILTER,L.P 19.8KHZ
U105	5232252520	TR.,DIGITAL RT1N241S
U106	5220426200	IC.,M51143AL
U107	5220021600	IC.,M4066BP
U108	5220427000	IC.,CX20187
U109,U209	5232252520	TR.,DIGITAL RT1N241S
U110,U210	5292805600	FILTER,LOWPASS MPX
U111,U211	5292806000	FILTER,L.P 19.8KHZ
U112	5220416200	IC.,M5218L
U113	5220416200	IC.,M5218L
U114,U214	5292805900	FILTER,LOWPASS 100KHZ
U115	5220039100	IC. AN6256
U116	5220430400	IC. UPC1297CA
U117-U120	5232252520	TR.,DIGITAL RT1N241S

LEVEL METER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200199500	LEVEL METER PCB ASSY
	*5210199500	LEVEL METER PCB
	*5800809100	HOLDER,METER
D022-D036	5224012920	DIODE,1S2473
FL01	5347004000	FL TUBE F1P60AW12Y
S002	5300909600	SW.,SLIDE 2-3
S003-S013	5302103200	SW.,TACT KHH10910
S014	5302102000	SW.,TACT KHL15910
S015,S016	5302103200	SW.,TACT KHH10910
U018	5232253200	TRANSISTOR ARREY LB1245
U019	5232252900	TR.,ARRAY LB1290
U121	5220041000	IC.,HA12067NT

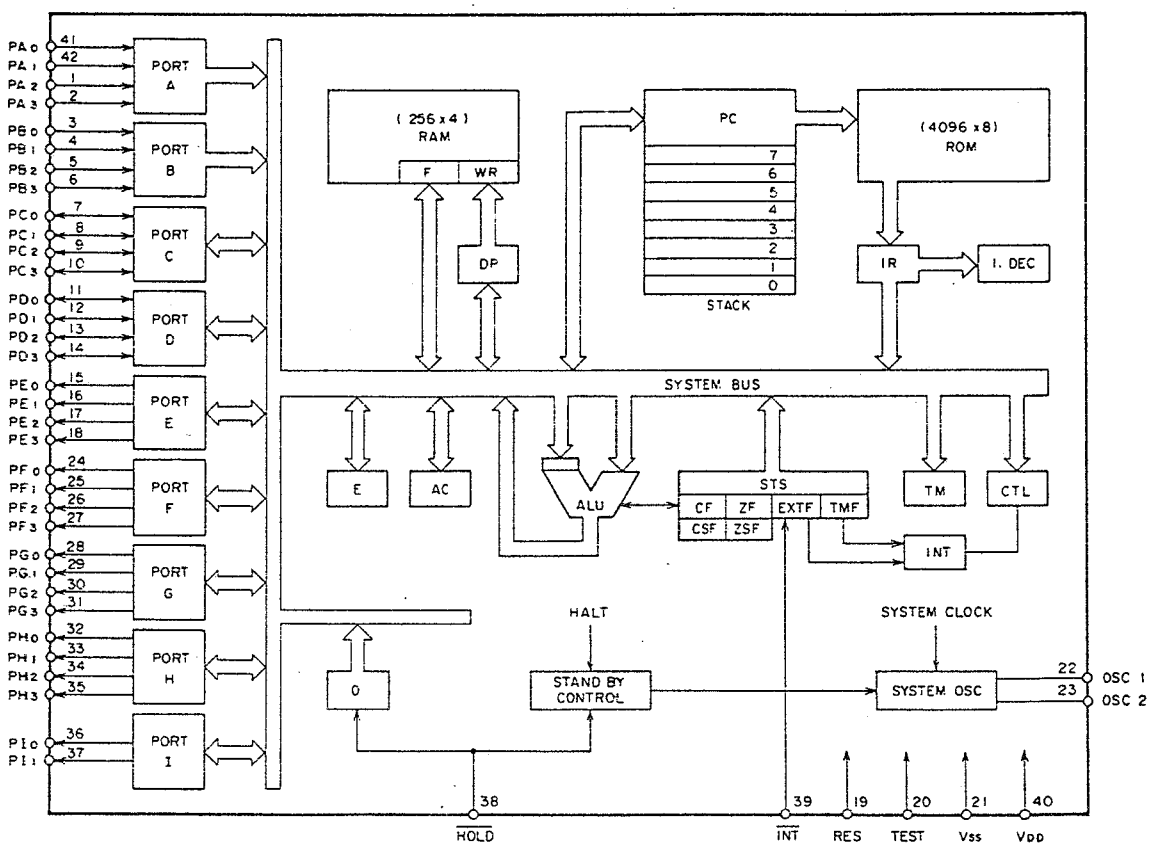
Note
As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.

Parts marked with *require longer delivery time.

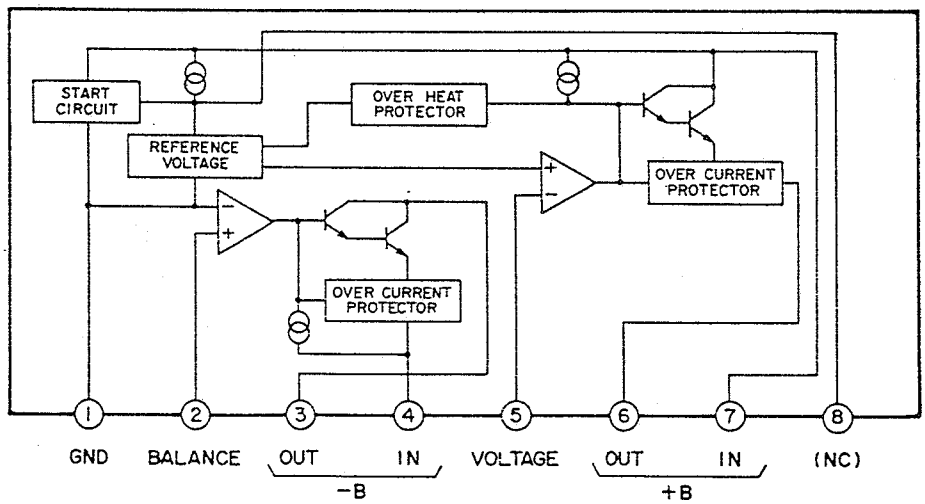
8 IC BLOCK DIAGRAMS

ICブロック・ダイヤグラム

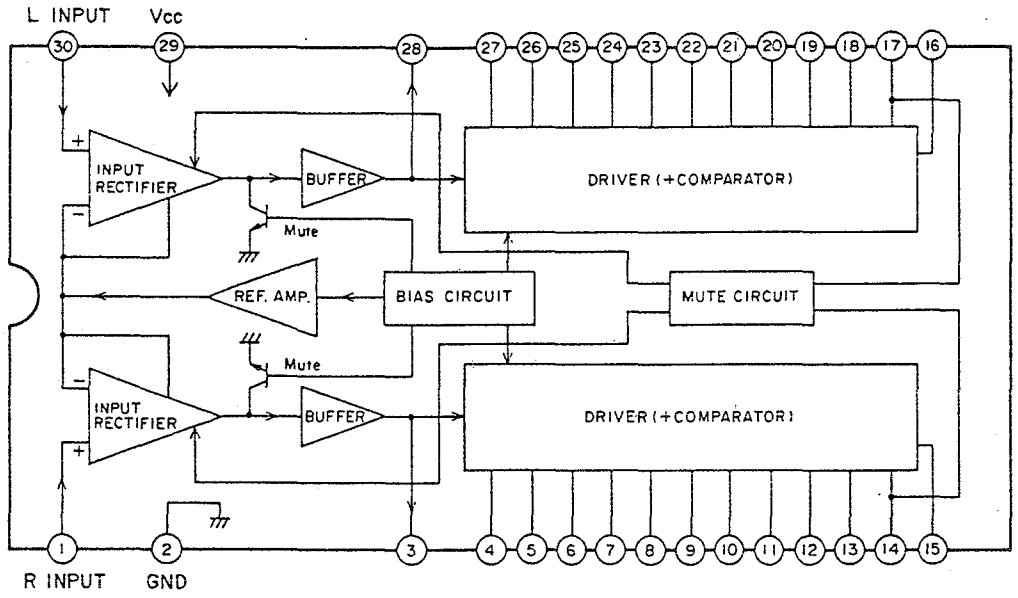
LC6510C-3033



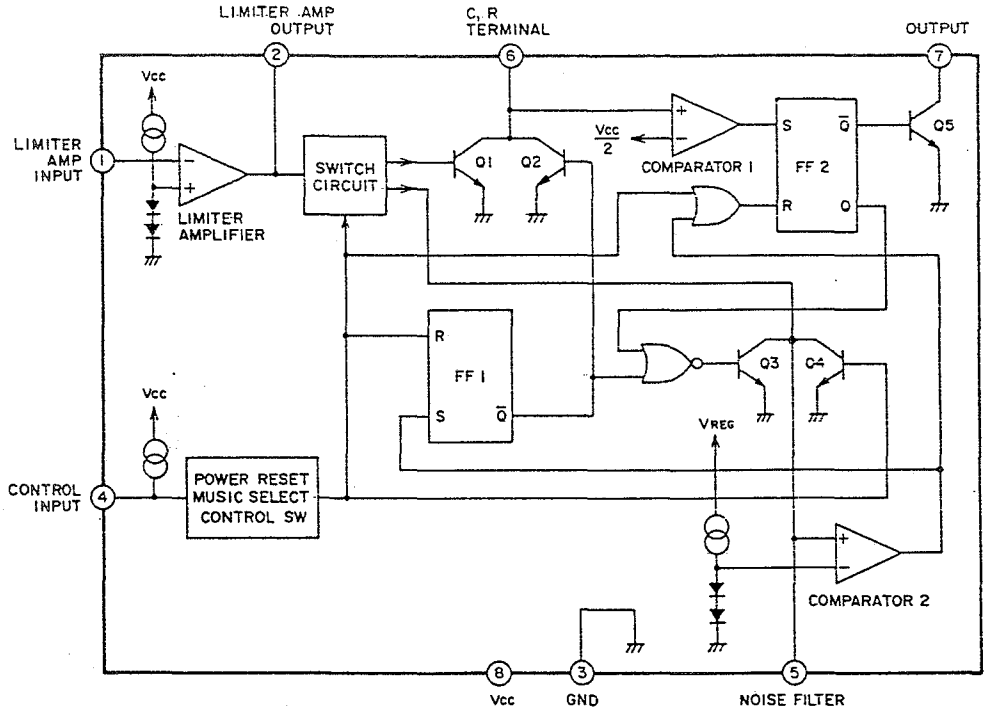
M5230LA



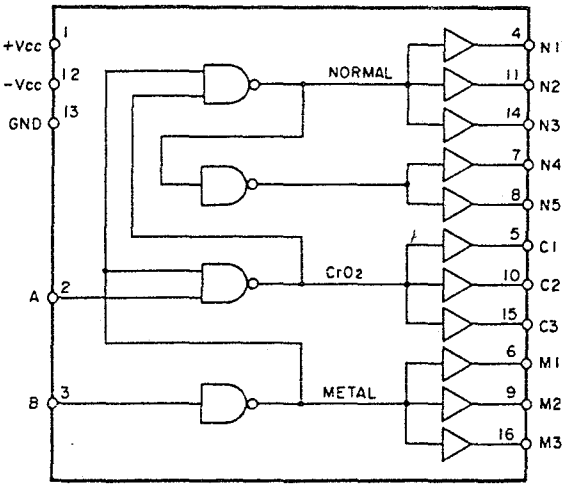
M51143AL



HA12067NT

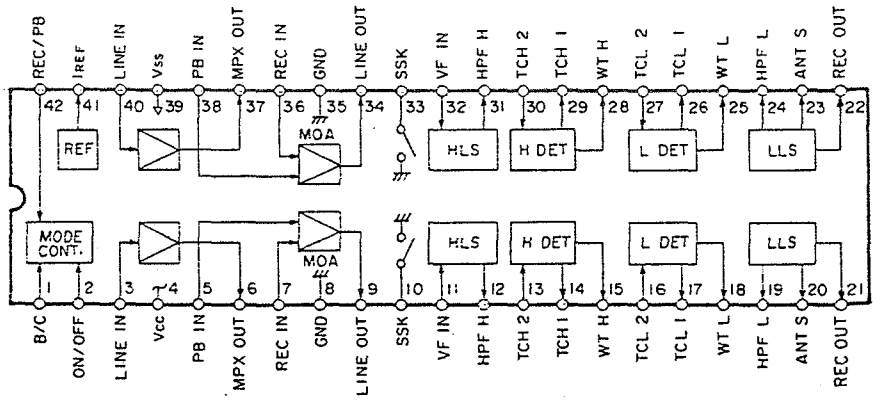


AN6256

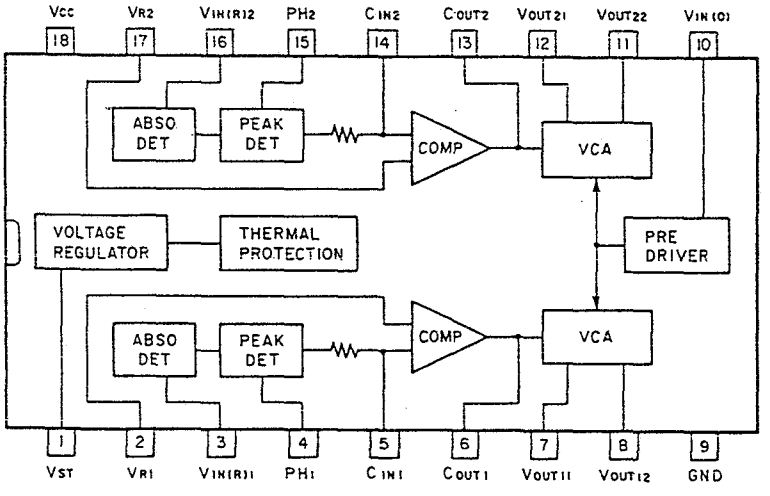


A	B	N1∼N3	N4∼N5	C1∼C3	M1∼M3	TAPE
L	L	L	H	H	H	NORMAL
L	H	H	L	H	L	
H	L	H	L	L	H	CrO2
H	H	H	L	H	L	METAL

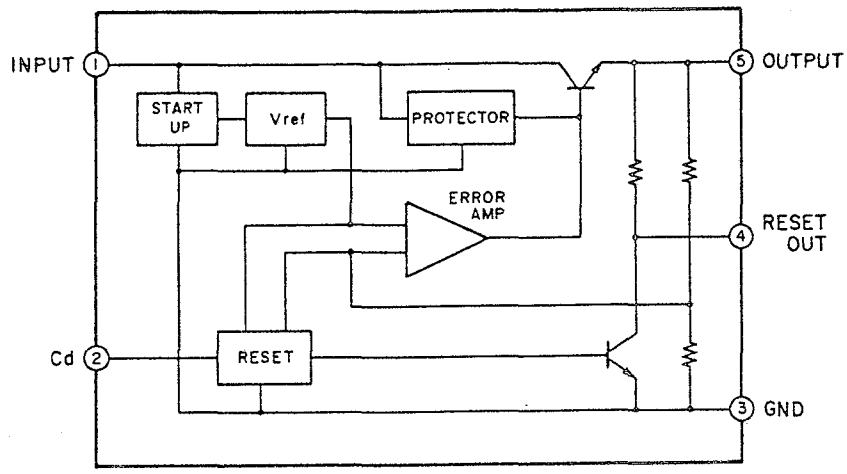
CX20187

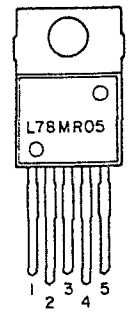


μPC1297CA

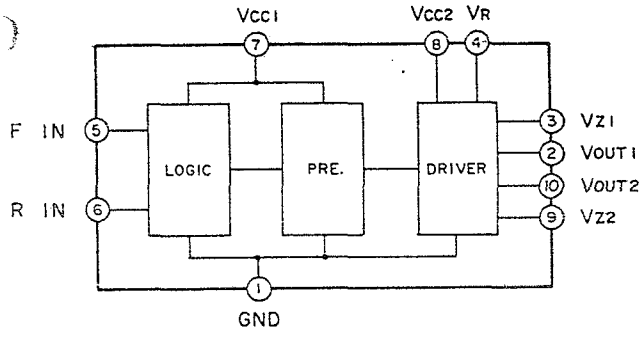


L78MR05

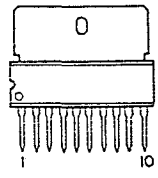




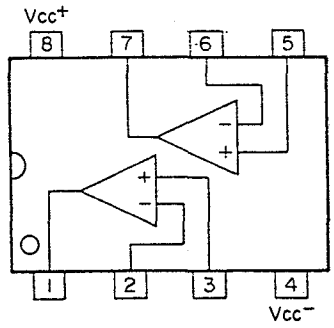
BA6209



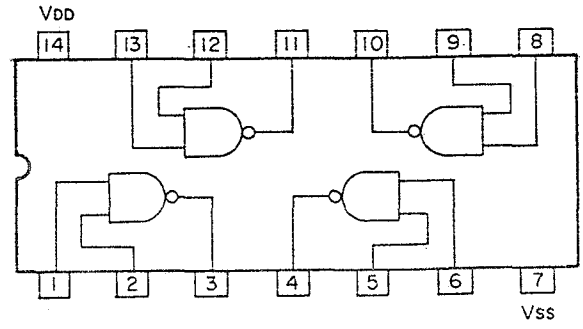
F IN	R IN	VOUT1	VOUT2
H	H	L	L
L	H	L	H
H	L	H	L
L	L	L	L



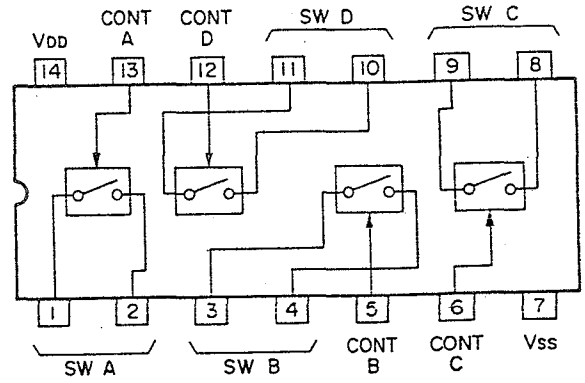
M5220P



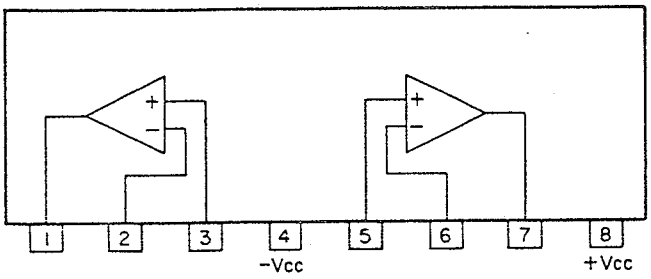
M4011BP



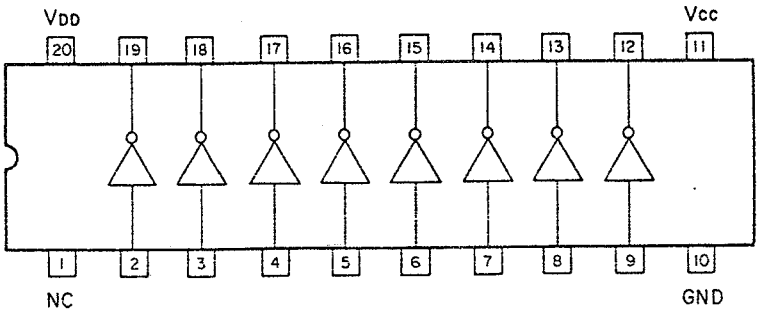
M4066BP



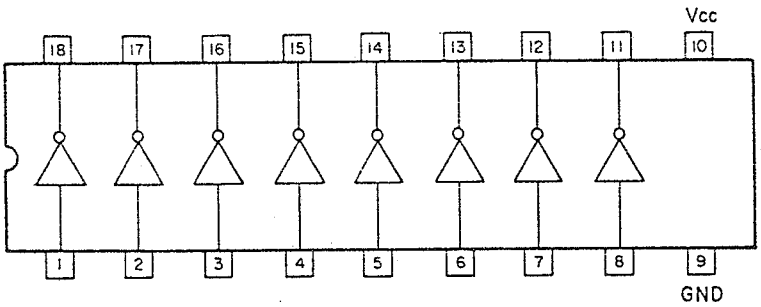
M5218L



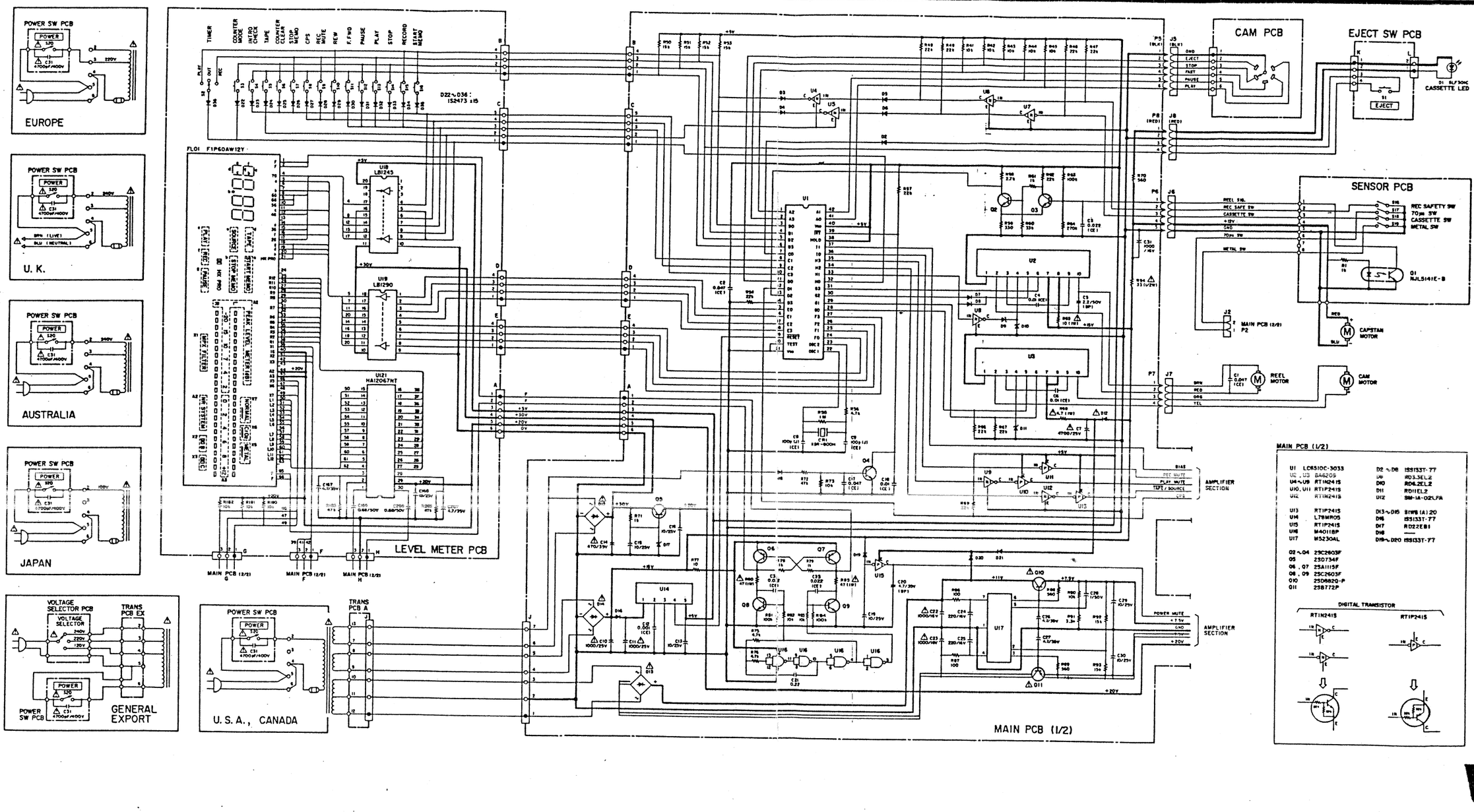
LB1245
(Transistor array)



LB1290
(Transistor array)



TEAC SCHEMATIC DIAGRAM V-770



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Stereo Cassette De

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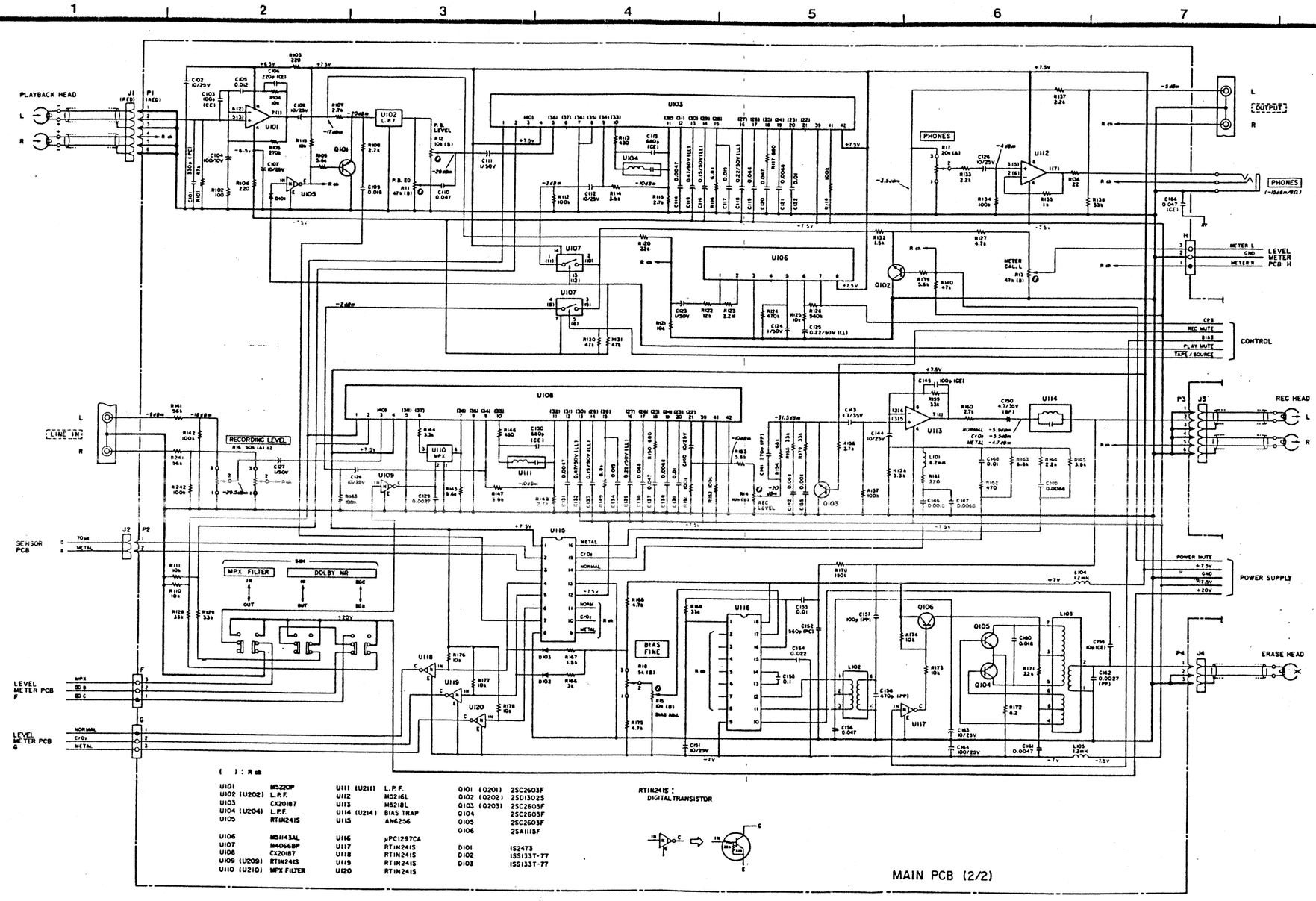
TEAC SCHEMATIC DIAGRAM V-770



INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. Voltage and signal level values are for reference only.
   0dB=0.775V
4. ▭ : Front panel indication
5. ⬚ : Rear panel indication
6. ——— : +B power supply circuit
7. ——— : −B power supply circuit
8. △Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

注意

1. 抵抗の単位はΩ(k=kΩ, M=MΩ)です
2. コンデンサの単位はμF(p=pF)です.
3. 電圧及び信号レベルは参考値です.
   0dB=0.775V
4. ▭ : フロント・パネル上の表示
5. ⬚ : リア・パネル上の表示
6. ——— : +B電源回路
7. ——— : −B電源回路
8. △マークのある部品は安全重要部品です。
   交換するときは必ずティアック指定の部品を使用してください.

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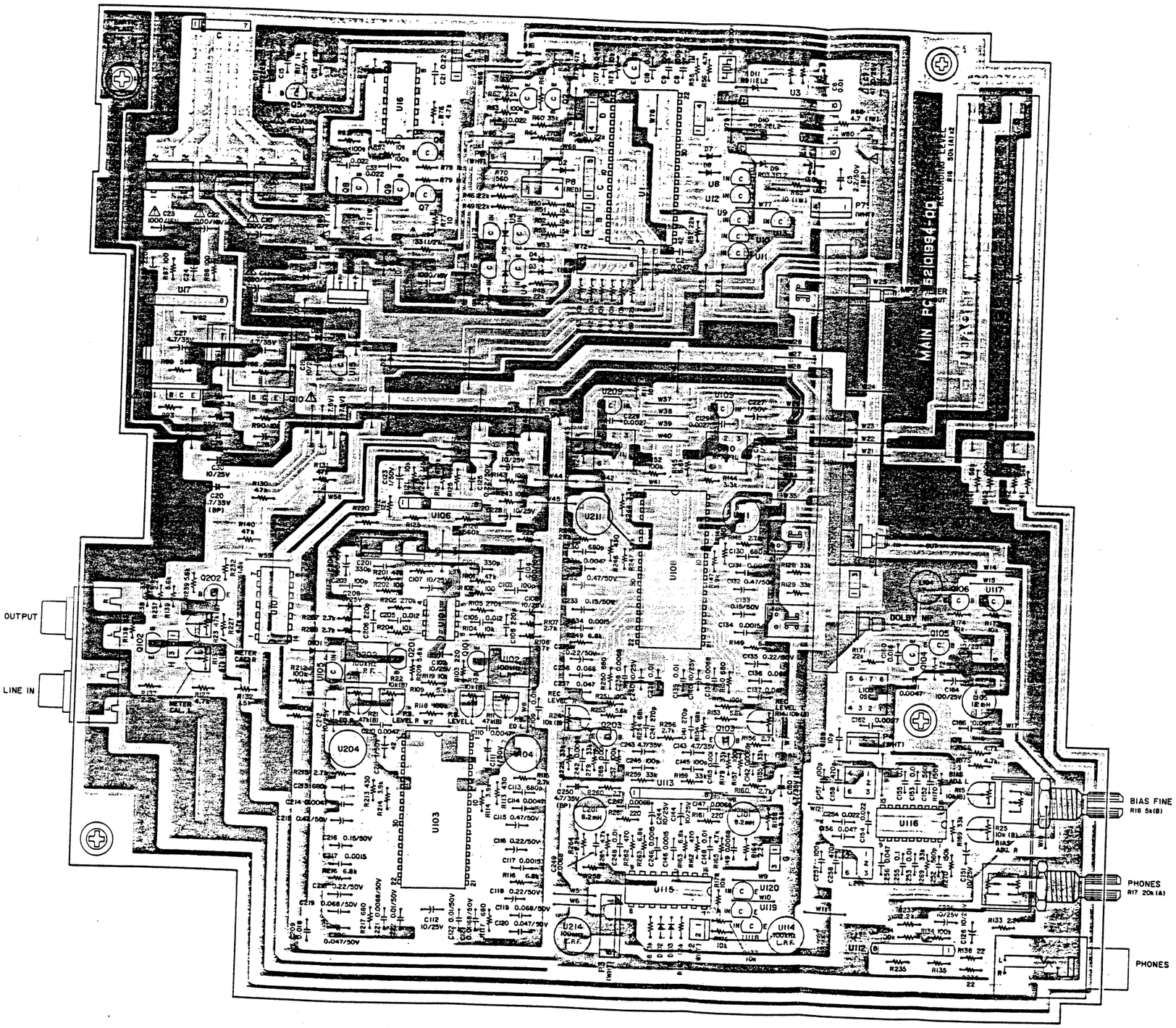
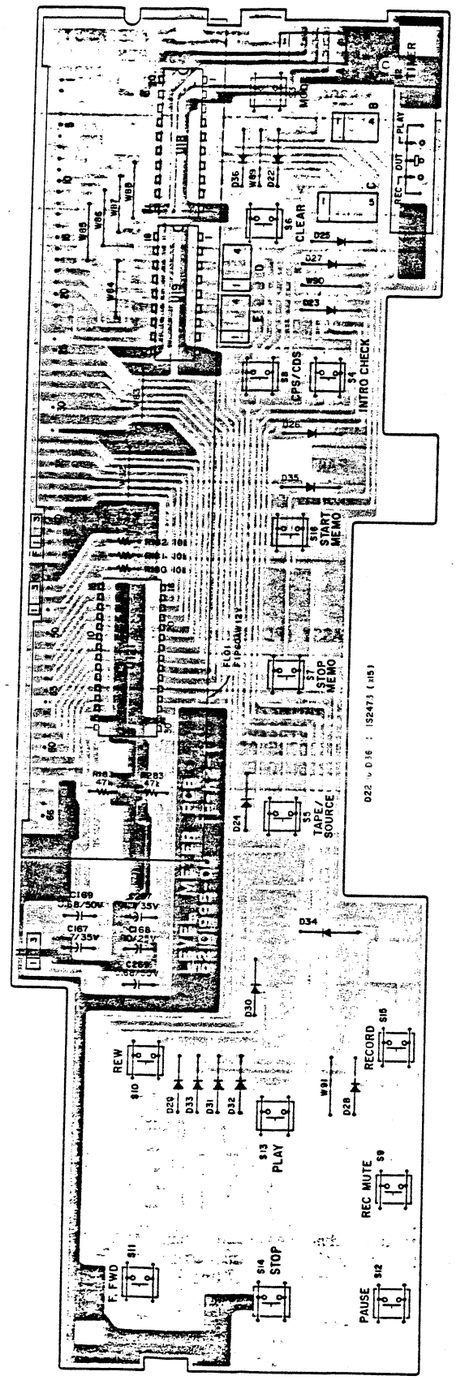
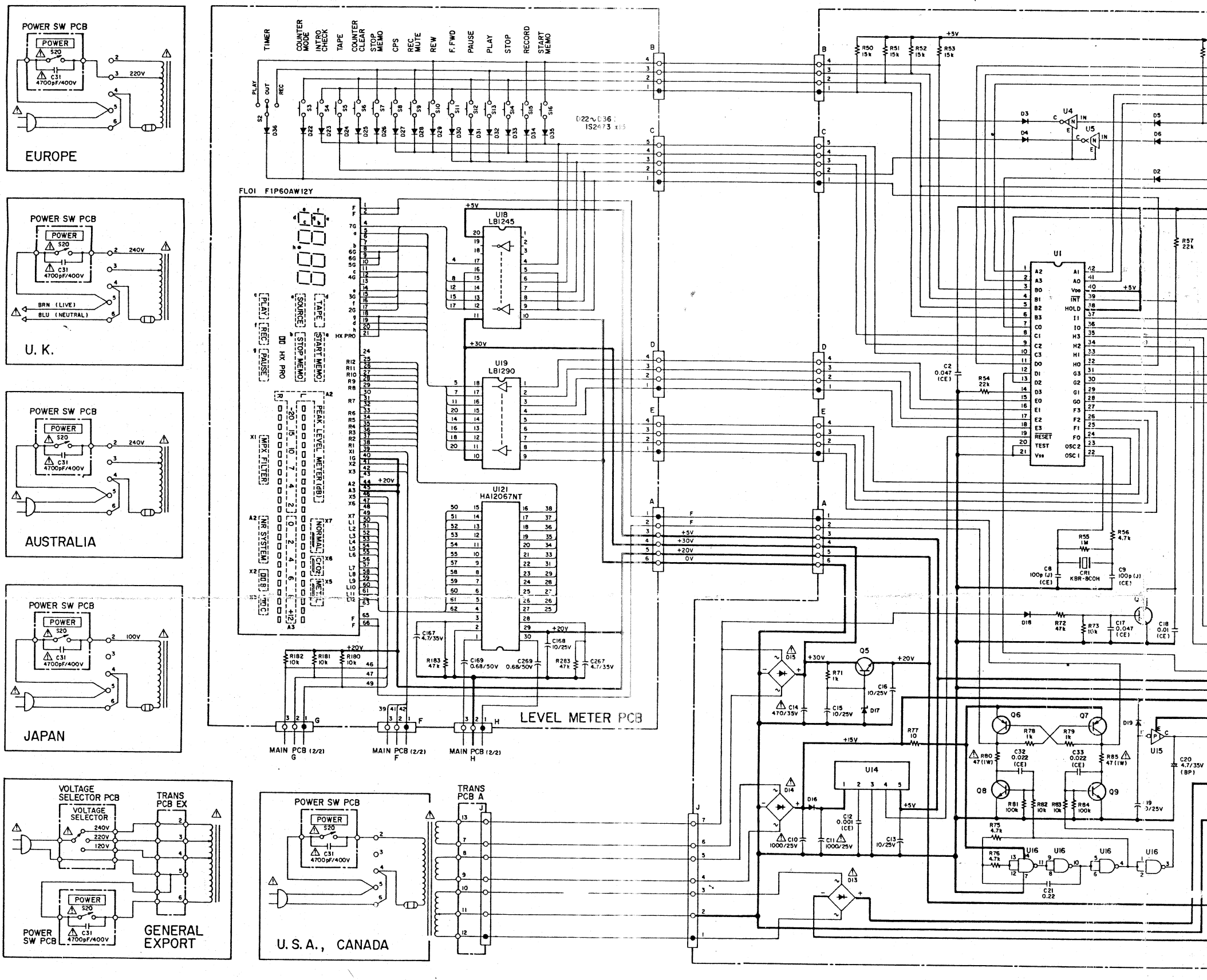
MAIN PCB ASS'Y

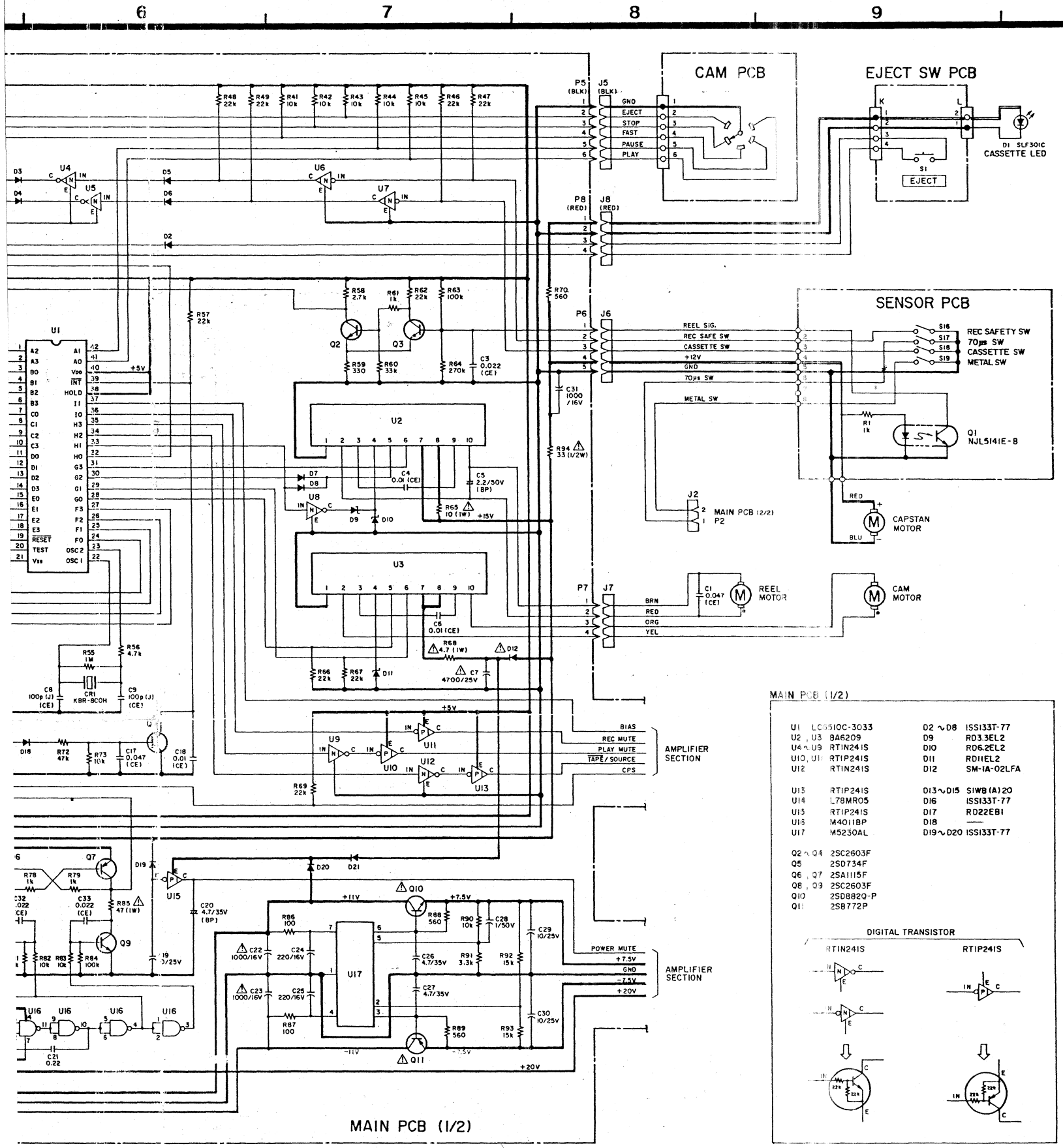


LEVEL METER PCB ASS'Y



TEAC SCHEMATIC DIAGRAM V-770





MAIN PCB (1/2)

U1	LC65I0C-3033	D2 ∿ D8	ISS133T-77
U2 , U3	BA6209	D9	RD3.3EL2
U4 ∿ U9	RTIN241S	D10	RD6.2EL2
U10, U11	RTIP241S	D11	RD11EL2
U12	RTIN241S	D12	SM-1A-02LFA
U13	RTIP241S	D13 ∿ D15	SIWB(A)20
U14	L78MR05	D16	ISS133T-77
U15	RTIP241S	D17	RD22EB1
U16	M4011BP	D18	—
U17	M5230AL	D19 ∿ D20	ISS133T-77
Q2 ∿ Q4	2SC2603F		
Q5	2SD734F		
Q6 , Q7	2SA1115F		
Q8 , Q9	2SC2603F		
Q10	2SD882Q-P		
Q11	2SB772P		

DIGITAL TRANSISTOR

RTIN241S

RTIP241S

V-770

Stereo Cassette Deck

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TEAC SCHEMATIC DIAGRAM V-770

1 2 3 4 5 6

A B C D E

POWER SW PCB
POWER
S20
C31 4700pF/400V
220V
EUROPE

POWER SW PCB
POWER
S20
C31 4700pF/400V
240V
BRN (LIVE)
BLU (NEUTRAL)
U. K.

POWER SW PCB
POWER
S20
C31 4700pF/400V
240V
AUSTRALIA

POWER SW PCB
POWER
S20
C31 4700pF/400V
100V
JAPAN

VOLTAGE SELECTOR PCB
VOLTAGE SELECTOR
240V
220V
120V
TRANS PCB EX
POWER SW PCB
POWER
S20
C31 4700pF/400V
GENERAL EXPORT

POWER SW PCB
POWER
S20
C31 4700pF/400V
TRANS PCB A
U. S. A., CANADA

TIMER
COUNTER MODE
INTRO CHECK
TAPE
COUNTER CLEAR
STOP MEMO
CPS
REC MUTE
REW
F. FWD
PAUSE
PLAY
STOP
RECORD
START MEMO
PLAY
OUT
REC
D22~D36 : IS2473 x15

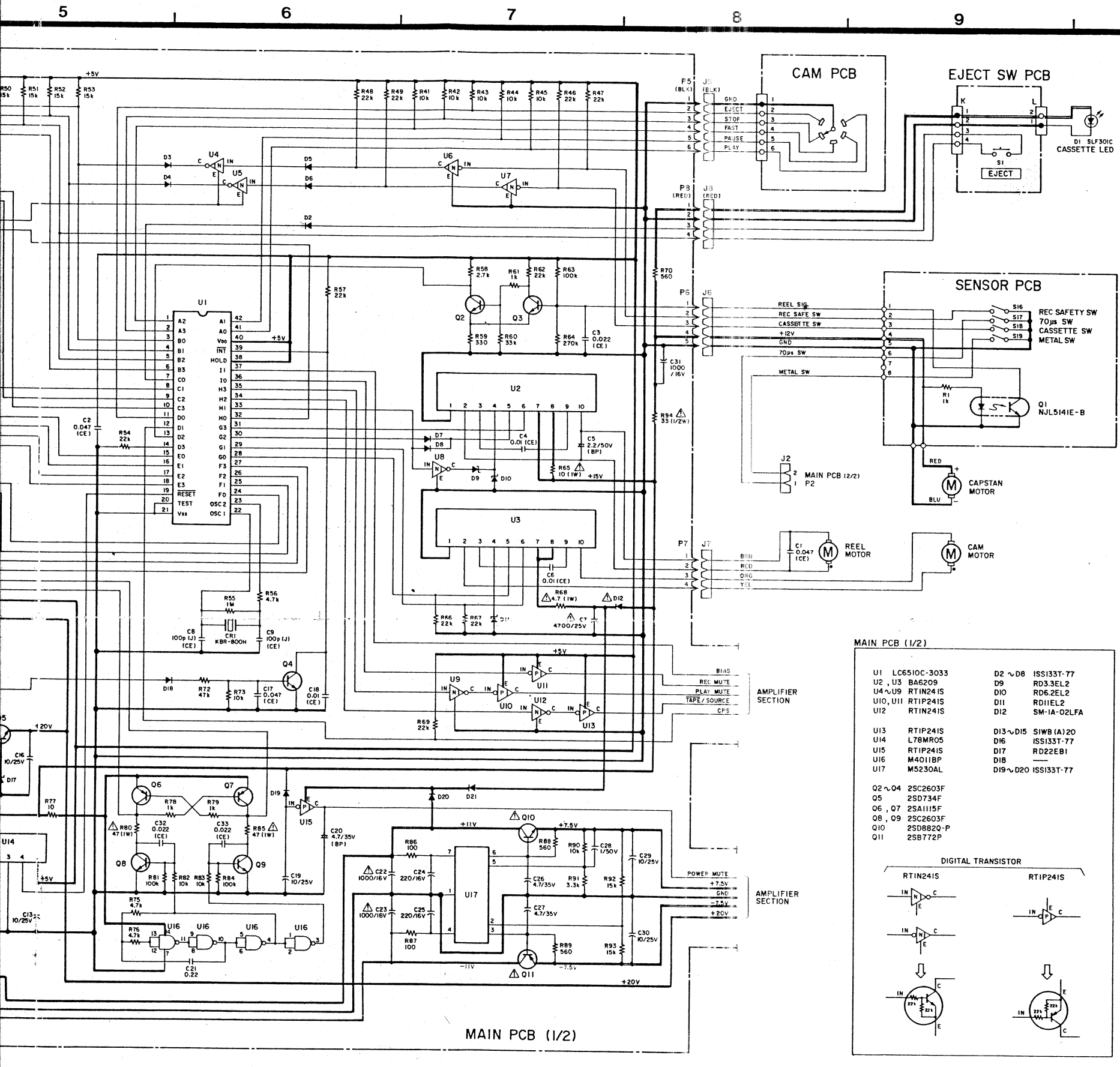
FL01 F1P60AW12Y
PEAK LEVEL METER (dB)
MPX FILTER
NR SYSTEM
DOLBY
DOLBY C
NORMAL
CrO2
METAL
SOURCE
TAPE
START MEMO
STOP MEMO
HX PRO

U18 LB1245
U19 LB1290
U121 HA12067NT

+5V
+30V
+20V
0V

LEVEL METER PCB
MAIN PCB (2/2) G
MAIN PCB (2/2) F
MAIN PCB (2/2) H

U1
U4
U5
U14
U16
Q4
Q5
Q6
Q7
Q8
Q9



MAIN PCB (1/2)

U1	LC6510C-3033	D2 ~ D8	ISS133T-77
U2 , U3	BA6209	D9	RD3.3EL2
U4 ~ U9	RTIN241S	D10	RD6.2EL2
U10, U11	RTIP241S	D11	RD11EL2
U12	RTIN241S	D12	SM-1A-02LFA
U13	RTIP241S	D13 ~ D15	SIWB(A)20
U14	L78MR05	D16	ISS133T-77
U15	RTIP241S	D17	RD22EB1
U16	M4011BP	D18	—
U17	M5230AL	D19 ~ D20	ISS133T-77
Q2 ~ Q4	2SC2603F		
Q5	2SD734F		
Q6 , Q7	2SA1115F		
Q8 , Q9	2SC2603F		
Q10	2SD882Q-P		
Q11	2SB772P		

DIGITAL TRANSISTOR

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